1	FEDERAL TRADE COMMISSION
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4	COMPETITION AND CONSUMER PROTECTION
5	IN THE 21ST CENTURY
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12	Tuesday, October 16, 2018
13	9:00 a.m.
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17	Georgetown University Law Center
18	600 New Jersey Avenue, N.W.
19	Washington, D.C.
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1 PROCEEDINGS 2 MR. KOBAYASHI: Okay, I think we're going to 3 get started. It's great to be back at Antonin Scalia 4 Law School. My name is Bruce Kobayashi, and I've been 5 a faculty member here since 1992. I'm currently on 6 leave and serving as the Director of the Bureau of 7 Economics. And in that capacity, it's my honor and pleasure to be able to introduce our opening speaker 8 9 for the two morning panels on antitrust and labor markets, Professor Alan Krueger. 10 11 Professor Krueger holds a joint appointment 12 at the Department of Economics in the Woodrow Wilson School as the Bendheim Professor of Economics and 13 14 Public Affairs at Princeton University. It's a 15 particularly appropriate choice to open our labor 16 market sessions, having published widely on the economics of education, unemployment, labor demand, 17 income distribution, social insurance, and labor 18 market regulation. 19 In addition to a long list of academic 20 21 articles, he has published multiple books, including 22 his coauthored book with David Card, Myth and 23 Measurement: The New Economics of the Minimum Wage, 24 and a book that I put on my reading list, Rockonomics: 25 How Music Explains Everything (about the Economy),

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especially since I saw in the blurb that he interviewed the manager of the Red Hot Chili Peppers. Professor Krueger has served in the Government. He was the Chairman of the Council of Economic Advisers and a member of President Barack Obama's cabinet from 2011 to 2013. Just prior to that, he served as Assistant Secretary for Economic Policy, and as a chief economist with the U.S. Department of Treasury from 2009-2010. And way back in the day when we were all younger -- he's still younger than I am -- he was a chief economist at the U.S. Department of Labor. So Alan certainly knows a lot about labor and public policy. He has held high positions in the American Economic Association, served on the executive committee, won numerous awards, too lengthy to mention. Here's his resume. It's double-sided. But let's give a warm welcome to our opening speaker, Alan Krueger. (Applause.)

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WELCOME AND OPENING ADDRESS
MR. KRUEGER: Thanks very much for that
generous introduction, and especially for plugging my
book, which will be out in May. But you may
especially be interested in the book by Flea of the
Red Hot Chili Peppers, which covers the first 18 years
of his life, which will be out around the same time as
mine. And I'm concerned there may be competition.
I want to thank the FTC for inviting me and
for holding this set of hearings. It's a really
impressive set of topics that are being discussed by a
very impressive set of researchers and others. What I
thought I would do is give an overview of how I see
competition and lack of competition in the labor
market.
I think this is a particularly appropriate
time to have this discussion. Research in labor
economics has been growing very quickly on
noncompetitive practices and on the noncompetitive
workings of labor markets. I think this is a topic
which is very important. I think it's one in which
the evidence is still evolving. We face similar kinds
of challenges in the labor market, as industrial
organization economists face in looking at product
markets in terms of defining the scope of a market.

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1 In fact, in many ways, I think it's more difficult in 2 a labor market because every individual is unique. 3 That said, I think there's a growing body of evidence which suggests that the go-to model of the 4 5 labor market, which has historically been one of perfect competition, is probably not the best model to б 7 use in many situations. In a perfectly competitive 8 model of the labor market, bargaining power is 9 completely irrelevant because wages are determined by the external forces of supply and demand. Firms just 10 11 passively accept whatever the market wage is. 12 In many applications, I think it is more appropriate to model the labor market as imperfectly 13 14 competitive, and Bob Topel arrived just in time, subject to monopsony-like effects, collusive behavior 15 16 by firms, search frictions, and surpluses that are 17 bargained over. As a result of these labor market features, I think it's often more appropriate to view 18 firms as wage-setters or wage-bargainers rather than 19

20 wage-takers.

This perspective can explain many welldocumented phenomena in the labor market, such as the high variability in pay for workers with seemingly identical skills, who work in different industries or in different firms, the lack of evidence that minimum

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1 wage increases reduce employment, and the reluctance 2 of firms to raise wages despite facing vacancies. 3 Now, I've noticed that many economists are 4 reluctant to accept the idea that markets are 5 manipulable, that firms or traders have some power б over prices and wages. When I worked at the U.S. 7 Treasury Department in 2009 and 2010, and I had the opportunity to work with some of the best finance 8 9 economists in the world, who were on leave to help during the financial crisis, my colleagues thought it 10 11 was inconceivable that foreign exchange markets or 12 LIBOR could be manipulated. After all, these are the 13 largest and most liquid markets in the world. 14 Only later did we learn that several traders 15 had been convicted of colluding on exchange rates and 16 that LIBOR was totally rigged. Interestingly, the 17 people who I worked with who came from the markets who 18 actually had experience trading thought this was guite 19 the norm.

Now, one economist who thought that labor markets are imperfect and subject to manipulation was Adam Smith. In The Wealth of Nations, Smith wrote, quote, "Employers are always and everywhere in a sort of tacit, but constant and uniform combination, not to raise the wages of labour above the actual rate. To

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1 violate this combination is everywhere a most 2 unpopular action, and a sort of reproach to a master 3 among his neighbors and equals." 4 Smith ridiculed naysayers who doubted that 5 employers colluded as "ignorant of the world as of the 6 subject." And then in full conspiracy mode, he added, 7 "We seldom, indeed, hear of this combination because 8 it is the usual, and one may say the natural state of 9 things, which nobody ever hears of." 10 Now, you don't have to look too far to find 11 evidence of the conspiracy that Adam Smith warned 12 about. In an ongoing FTC case involving physical therapists in Dallas and Fort Worth, the language 13 14 rings very similar to what Adam Smith wrote about, 15 only it's been more modernized with texting. The owner of one physical therapy company wrote another, 16 17 "Yes, I agree, I'll do it with U." You was spelled U, 18 not Y O U. And "do it" was referring to jointly

Now, I'll return to some other cases involving collusion in the job market. Broadly speaking, there are two varieties of economic models that give employers some discretion over wage-setting. The first, pioneered by Joan Robinson, is a static monopsony model, where there's a single employer who

agreeing to lower wages.

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1 faces an upward-sloping labor supply curve. This 2 could be easily extended to a small number of 3 employers, oligopsony. And it could be extended to 4 Smith-like situations, where employers jointly collude 5 to suppress pay below the competitive rate.

б The second class of models, which were 7 pioneered by Ken Burdett, Dale Mortensen, Chris Pissarides, Peter Diamond and extended recently by 8 9 Alan Manning, rests on search frictions. And there were a variety of different types of search models, 10 11 but basically it takes time and effort for workers to 12 search for job openings and for firms to search for 13 workers. As a consequence, the firm pays a little less than the going wage; it would not lose all of its 14 15 workers or find it impossible to hire new ones.

16 In fact, there is no single going wage in 17 these models but a range of plausible offers that firms could make, or bargains that firms and workers 18 can strike. As a practical model -- a practical 19 matter, both classes of models are equivalent to 20 21 assuming that the labor supply curve to a firm is 22 upward-sloping instead of infinitely elastic. Firms 23 would operate with costly vacancies in these models, 24 yet resist raising wages because pay would need to be increased for all workers, not just the incremental 25

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hired worker. And the employers collude to hold wages to a fixed below-market rate, or monopsony power increases over time, then wages could remain stubbornly resistant to upward pressure, even at a time when the economy is booming.

6 So with this framework as background, I'd 7 like to make four observations about the labor market 8 that I think are particularly relevant at a time when 9 we're seeing relatively weak wage growth despite 50year low unemployment. First, average wage growth is 10 11 weaker than one would expect from historical 12 relationships between wage growth and the unemployment 13 rate.

14 Janet Yellen alluded to this earlier this 15 week and said that a leading explanation for the shift 16 in the Phillips curve is that worker bargaining power 17 is weaker than it used to be. Although nominal wage growth has been creeping up in this recovery, over the 18 last 12 months, nominal wage growth has barely kept 19 pace with inflation. And there are many explanations 20 21 for why wage growth may be weaker than we would 22 predict. Low productivity growth, I think, is an important factor, but low productivity growth can't 23 24 account for the last year because productivity growth 25 has picked up, yet wage growth -- real wage growth --

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1 has actually weakened.

Based on the specification of the wage Phillips curve that I estimated 20 years ago in a Brookings paper, I would expect wages to be between 1 and 1 and a half percent stronger today than they have been.

7 Second observation. There's growing 8 evidence supporting an important role of monopsony 9 power in the job market stemming from both employer concentration and dynamic labor market considerations. 10 11 I won't go into too much detail on this work because 12 one of the main contributors, Ioana Marinescu, is here, but basically this work finds that measures of 13 14 employer concentration, even measured by concentration 15 within an industry in a county or concentration -- of 16 employment within an industry in a county in work by Benmelech and coauthors, or measured by job openings, 17 posted online for occupations within a small commuting 18 19 zone, show a relationship with wages which suggests that in more concentrated areas, wages are lower, 20 21 other things being held equal.

There is also some evidence that concentration has increased, although again, I think it's important that we define the boundaries of the labor market carefully in that work. Other studies

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1 have looked at monopsony power within specific 2 industries. And here I think the most work has been 3 done in the nursing industry. Dan Sullivan in 1989, Doug Staiger in 2010 and coauthors found substantial 4 5 evidence that hospitals are able to use monopsony б power in setting wages for nurses.

7 Then lastly, there's evidence on dynamic 8 monopsony power. For example, Doug Webber has used 9 the longitudinal employer household dynamics data 10 set to estimate labor supply elasticities to firms. 11 Specifically, he looked at how turnover relates to the 12 generosity of compensation across firms, he found that 13 the average labor supply elasticity to a firm was 1.1. 14 And he also found considerable variability across firms, and the firms that had a more inelastic labor 15 16 supply tended to pay lower wages, as one would expect 17 if they take advantage of their monopsony position. 18 Third, monopsony power and search frictions have probably always existed in the labor market. 19 But the forces that traditionally counterbalanced 20 21 monopsony and boosted worker bargaining power have eroded in recent decades. The most obvious is labor 22 unions. Union membership fell from 25 percent of the 23 workforce in the U.S. in 1980 to 10.7 percent last 24 25 year.

1 Collective bargaining used to be an 2 effective counterweight to monopsony power. We used 3 to write papers on the union threat effect, but in 4 most industries, there's hardly any union threat 5 effect, so the spillover effects where companies might б raise wages to try to prevent having a union drive is 7 weaker than it used to be. Another counterbalance to 8 monopsony power that is weaker today is the minimum 9 The U.S. federal minimum wage is currently waqe. \$7.25 an hour. It had not been raised since July of 10 11 2009. The real value of the minimum wage is down about 20 percent since 1979. 12

13 By contrast, in that period, both the U.K. and Germany enacted their first national minimum 14 15 wages, and they currently stand at \$10 an hour at 16 current exchange rates. The decline in unionization 17 and the erosion of the real value of the minimum wage have been found to significantly contribute to higher 18 income inequality and polarization in the U.S. 19 workforce. 20

These shifts have also probably contributed to the downward trend in labor share in the U.S. since the 1990s after decades of stability. Now, one might argue that these changes to the labor market have made the labor market more competitive. But the fact that

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1 the employment-to-population rate has trended down, 2 especially for the workers who were covered by 3 collective bargaining and affected by the minimum 4 wage, and that regional shocks are now more 5 persistent, the wages, employment, and labor force 6 participation suggests that we have a less competitive 7 labor market with weaker bargaining power and more 8 monopsony power.

9 There's been a proliferation of practices that enhance monopsony power and weaken worker 10 11 bargaining power. I'll highlight five of these 12 practices. First, there's been increased reliance on 13 temporary help agencies, staffing firms, and outsourcing. One implication of this practice is that 14 15 firms can wage-discriminate. This can facilitate 16 monopsony. If a hospital has persistently high 17 vacancies for a nursing position, it can reach out to a staffing firm, hire a staff nurse from the firm, and 18 pay a higher salary to that particular nurse than 19 other nurses who are employed by the hospital. 20 21 Second, a quarter of American workers are

bound by a noncompete restriction on their current job or from a previous job. These restrictions, which may be justified in an unlimited number of cases to protect returns to specific training or trade secrets,

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1 have truly run amok. Even Jimmy John's used the 2 practice for submarine sandwich makers until they were 3 forced to drop it. Just over one in five workers who earn less 4 5 than the median wage are bound by a noncompete 6 restriction on their current or previous job, 7 according to work that Eric Posner and I have done, 8 and I'm sure we'll hear more about noncompetes later 9 from Evan Starr. Noncompete agreements lower -reduce workers' options and reduce mobility and 10 11 bargaining power. 12 Third, a growing fraction of the workforce 13 is covered by occupational licensing restrictions, typically imposed by state and local authorities. 14 15 Morris Kleiner and I, for example, find that over a 16 quarter of workers are required to obtain a license to 17 perform their job. These restrictions may be justified in positions that require extraordinary 18 skill or put the public at risk, but they also 19 restrict job opportunities and mobility. 20 21 Occupational licensing has also run amok. 22 It's particularly difficult for workers who want to change jurisdictions, change states. It is especially 23 24 a burden on military spouses. Military families move around often. The most common jobs for military 25

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1 spouse are nurses and teachers who often have to get 2 licensed in the new state when they move, pay a 3 licensing fee, and by the time they are permitted to work in those states, they often move again. 4 5 Fourth practice, my colleague, Orley 6 Ashenfelter, and I have found that 58 percent of 7 franchise companies have a no-poaching clause in their franchise contract that prevents one franchisee from 8 9 hiring workers from another franchisee or from the franchise company itself if the company operates 10 11 stores. This is up from 36 percent of franchise 12 companies in 1996. The practice is particularly 13 common in fast food chains. We found that 80 percent 14 of the largest quick-service restaurant franchise 15 chains had a no-poaching requirement. 16 Since the human capital that is being 17 prohibited from moving around different outlets within

18 the franchise would stay in the franchise company, it 19 is awfully hard to see a business justification for 20 this practice other than trying to suppress mobility 21 and suppress workers' wages.

22 Washington State took action. The Attorney 23 General in Washington State launched an investigation 24 and managed to persuade 30 of the largest franchise 25 chains to drop their no-poaching agreement in the U.S.

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-- in Washington State and the U.S. Almost all of the
major fast-food companies with the no-poaching
agreement have dropped -- have dropped that from their
contract, thanks to the work of Bob Ferguson, the
Attorney General in Washington State, over the last
couple of months.

Just yesterday he announced that he's bringing a lawsuit against Jersey Mike's, a franchise based in my state, New Jersey, which operates in Washington State and other states for continuing to use this practice.

12 I should add that in addition to restricting 13 mobility and increasing monopsony power, these types 14 of restrictions on mobility like noncompete clauses 15 and no-poaching agreements, and the no-poaching 16 agreement was just completely blind to the worker. 17 Workers are not aware they're not party to these 18 agreements. They reduce workers' opportunities for finding better job matches, improving their working 19 conditions in other ways, and work by Bob Topel and 20 21 Michael Ward back in 1992 found that about a third of 22 the wage gains in the first ten years of young 23 workers' careers were associated with job changes. 24 So apart from the effect of suppressing 25 wages at the firm where these workers work, they also

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1 reduce opportunities for the workers to move up the 2 wage hierarchy. Now, no-poaching agreements would 3 clearly be illegal if they occurred across unrelated It's an unsettled area of the law as I 4 firms. 5 understand it, if franchisees agree to these types of 6 no-poaching agreements. But as I mentioned earlier, 7 there are violations of the law outside of the franchise sector as Adam Smith had anticipated. 8 Ι 9 could go through many examples, but I think I'm running short on time, so I'll give you a few more. 10 11 In the famous case, Apple, Google, Adobe, 12 Intel, and Intuit, Pixar, Lucas Films were found to have colluded on not hiring each others' workers, 13 14 colluding on pay settings, and paid a half-billiondollar settlement in 2015. There have been several 15 16 cases in the hospital industry, addressing pay of 17 Eight major hospitals in Detroit recently nurses. reached a \$90 million settlement in a suit alleging 18 that the hospitals colluded to reduce nurses' pay. 19 Similar cases are in various stages in 20

Albany, Memphis, San Antonio, and Arizona. A couple of months ago, I spoke with Jeff Suhre, who is a registered nurse and was the lead plaintiff in the Detroit nurses case. I wanted to understand from his perspective how he came to recognize that this was

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1 taking place and what impact it had on his career and 2 his work.

3 He said that he worked at the emergency room 4 at St. John Providence Hospital in Warren, Michigan. 5 He was hired in 1991. He later moved to the critical б care unit, and he attended patients who were 7 recovering from open heart surgery and other serious 8 conditions. After working there for 12 or 13 years, 9 Mr. Suhre said he got an inkling that the human resource department at his hospital was coordinating 10 11 with other hospitals and setting nursing pay because 12 he had an opportunity to see some emails where they 13 were discussing trying to reduce mobility and 14 coordinate on pay.

15 He said the hospitals -- the nurses at his 16 hospital were nonunionized, and the hospitals in the 17 area wanted to prevent nurses from jumping from one hospital to the another for better pay and better 18 The executives would often 19 working conditions. discuss these issues and exchange pay rates at 20 21 conferences. One indication that the hospitals 22 exploited their monopsony power that he told me about 23 was that when they had vacancies, which was often, the hospital would reach out to a staffing firm. 24 The 25 staffing nurses were paid \$40 an hour, plus the firm

1 got administrative fees, while employee nurses were

2 paid \$30 an hour.

A class action suit was filed on behalf of 3 4 Mr. Suhre and thousands of other nurses in 2006. He 5 gave a deposition in 2007. He said the hospital, "made my life hell for me after that," increased his б 7 patient load to a level he considered unsafe for the 8 patients. He quit in 2008. Other hospitals were 9 reluctant to hire him. He now works in home 10 healthcare.

11 The antitrust suit was settled in 2010. Mr. 12 Suhre did not receive any compensation until 2012, six 13 years after the suit was filed. So I think this gives 14 an indication of the challenges that workers face in 15 this situation and the retaliation that they sometimes 16 can face.

17 It's worth noting that collusion is easier when there are fewer firms in a market. The increase 18 in employer concentration in the U.S. has probably 19 facilitated collusion. And collusion doesn't have to 20 21 be explicit. Employers could collude at a focal 22 point. The minimum wage could be a focal point, for 23 example. Round numbers could be a focal point. And 24 there is evidence that this type of passive collusion 25 occurs as well.

Now, a really tight labor market might make it possible for this collusion to break down. I suspect that's part of the reason for the historical Phillips curve to exist in the first place, so we may see some improvement if the economy continues to improve and the unemployment rate continues to stay low.

8 I want to conclude by saying I presented a 9 similar set of remarks at Jackson Hole this summer at the Kansas City Fed annual conference on monetary 10 11 policy. The reaction I got was quite encouraging. I 12 think many of the monetary policy officials thought 13 these issues are important, but probably beyond the reach of monetary policy. I think there was a 14 15 consensus coming out of that meeting that these are 16 very important issues for the Department of Justice 17 and for the FTC to focus on.

18 I want to commend the FTC and the DOJ for issuing joint guidance in October of 2016 for human 19 resource professionals clearly stating that wage-20 21 fixing and agreements not to poach other firms' workers are illegal. And I think this is an area that 22 23 needs a greater intention and more vigilant enforcement, because from the evidence that is 24 25 available, it seems that Adam Smith was right and

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1	there are many instances of employers combining	
2	tacitly, sometimes explicitly, as in those emails	that
3	I read before, to try to suppress pay. Thank you	
4	(Applause.)	
5	(Welcome and introductory remarks	
6	concluded.)	
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1	PANEL 1: ECONOMIC EVIDENCE OF LABOR MARKET MONOPSONY
2	MR. SANDFORD: Thank you, Alan. And thank
3	you to everyone for coming or watching on the web. My
4	name is Jeremy Sandford. I'm an economist at the FTC,
5	and I will be one of the moderators of this panel.
б	The other will be Devesh Raval, who is also an
7	economist at the FTC and is seated to my left.
8	We have a very strong panel to discuss the
9	issue of labor market monopsony. We've already heard
10	from Alan Krueger. The other panelists are Matthias
11	Kehrig of Duke University. Ioana Marinescu of the
12	University of Pennsylvania School of Social Policy and
13	Practice, Nancy Rose of MIT, and Nancy recently served
14	as the Deputy Assistant Attorney General for the
15	Department of Justice, and Bob Topel of the Booth
16	Business School at Chicago.
17	So Alan's already had a chance to give
18	remarks. The other four panelists are now going to
19	each have up to 12 minutes to give opening remarks.
20	And the order will be first Matthias, then Ioana, then
21	Nancy, and then Bob. And following that, we'll have a
22	Q&A session in which Devesh and I ask questions of the
23	panel.
24	So with that, I will hand it off to
25	Matthias.

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1 MR. KEHRIG: Okay. Thank you very much for 2 the invitation to discuss here with other academics 3 and policymakers, economists of the FTC, concentration 4 and market imperfection in labor markets. I'm a 5 macroeconomist. I work on productivity and firm б dynamics and how firm -- high-productivity and low-7 productivity firms evolve over time, how they hire and 8 what wages they pay.

9 So in principle, what I'm going to want to bring to this discussion is little bit the firm side, 10 11 how do firms decide, how do they act in labor markets, 12 how do they respond to market conditions in terms of 13 their employment, in terms of their wages and so on. 14 So the first important thing that I want to say is, 15 when we talk about wages, wages are compensation for 16 something that the worker produces for the firm, which 17 is somehow value-added per worker or gross profits per 18 worker.

19 So this is what I'm going to add to this, 20 and I basically want to make four points here. The 21 first point is I want to talk about how concentration 22 evolved in markets. I'm going to talk about markets, 23 I want to talk about, first of all, open markets, 24 goods markets, and, secondly, input markets, labor 25 markets. It turns out they're actually slightly

different, and that's important because when you think about how firms should typically respond to standard economic reasoning, they should be related, but they are not since the 1980s.

5 The second point I want to make is that б overall the labor compensation and labor productivity 7 per worker, they have diverged since the '80s. So on 8 principle, you can think of this, this is the fact 9 that the aggregate labor share in the economy, the share of GDP that is paid out as wages and 10 11 compensation for workers, has gone down. And the 12 interesting aspect is when you look at individual 13 firm-level data, for the average firm, this is not the It is really a very small subset, a very few 14 case. what we call hyper-profitable or superstar firms that 15 16 have tremendous productivity growth and don't share 17 with the workers.

18 The third point I want to say, it's like this productivity growth primarily stems from the 19 output side of firms. So these firms, they make 20 21 incredible profits by having high relative prices 22 compared to their peers in the same product and market 23 and so on. It is not so much that they pay 24 particularly lower wages. It still could be going on 25 that although wage level is suppressed because of

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various factors that Alan Krueger mentioned -collusion, unionization and so on -- but when we
single out these individual firms that have this
tremendous productivity growth and no really wage
payment, it is not because they undercut the wages,
it's because they are at relatively high prices.

7 And the last point that I want to make is 8 that there's remarkable turnover at this high price 9 end of the market, that the firms are kind of in a mutual competition of overtaking each other, and that 10 11 has become increasingly volatile, and that might be 12 one reason also why they don't pay higher wages 13 because on the output sides, they face a lot of demand 14 pressure.

15 So first point, the concentration dynamics. 16 So when we look at the concentration in goods markets, 17 this is from a slide from some work from David Autor and others. The concentration goods market has been 18 19 unambiquously going up. If you look at the share of sales accounted for by the top four or by the top 20 20 21 firms, what you see is that has been increasing 22 secularly. And that's true for many other concentration measures such as the Herfindahl index 23 24 and others.

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So these are -- this is based on census

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1 data, and the census data in principle captures all 2 the businesses there are. So they capture in 3 principle all the sales. They also, of course, record 4 employment, and that's what I want to show to you now, 5 is when we look at the same idea of concentration measures in the labor market, the evidence is much 6 7 more ambiguous. So there's some recent work by 8 Claudia Macaluso, Brad Hershbein, and Chen Yeh, and 9 also David Berger, Kyle Herkenhoff, and Simon Mongey, that they say actually if you look at the local 10 11 concentration of employment in local labor markets 12 that's been going down.

Now there's some other work and evidence on 13 14 the concentration of -- among new vacancy posting of 15 job openings. So that's slightly different. What I'm 16 showing here is these people have worked on the 17 concentration of the total employment. And, of course, when it comes to wage-setting, wages are 18 19 typically set at the beginning of when a worker starts working for a firm, so when they're hired, when the 20 21 vacancy is opened, and then there are some interview postings and then filled. So employed workers don't 22 23 get as much wages, unless they're poached, unless 24 they've alternate offers or they quit. 25 So the first -- the takeaway is that the

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1 concentration dynamics don't exactly line up. Of 2 course, there are many questions that are dicey here, 3 about measurement, what exactly is a firm, what 4 exactly is a local labor market? Should we look at 5 overall employment, should we look at the net addition 6 of employment. So I want to acknowledge that there 7 are many measurement issues that we want to -- should be mindful of, but in principle what we see is upward 8 9 concentration and labor market concentration do not 10 move in lockstep.

11 So, so far this is all data on the entire 12 U.S. economy. Now I'm moving on to my own work based 13 on micro-level data in the manufacturing sector. The reason why I'm doing this is because in manufacturing 14 15 we have very good data on both input, output, and we 16 can talk about productivity. We can precisely talk 17 about what does the worker produce for the firm, what is value added per worker, and what is the wage of 18 that worker. 19

20 So standard economic theory would say, well, 21 if there is a very good -- quote, unquote -- firm that 22 gets very large, sells a lot of products, then in 23 principle that firm should draw resources, should 24 poach workers from other firms, should grow, and that 25 grows the economy. That reallocation of work is

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1 essential for economic growth. This is standard

2 thinking.

3 And when we actually ask ourselves if that's 4 really the case, there has to be something changing in 5 that relationship. What I'm now showing you is a 6 simple plot about productivity shocks, a total effect 7 of productivity shocks and how firms respond to them in terms of their hiring. So the question is do firms 8 9 that have a high productivity that are very profitable, do they also expand in terms of 10 11 employment. That would be the standard way our 12 economic reasoning works.

So from this work here with Cosmin Ilut and 13 14 Martin Schneider, what we saw is that on the right 15 axis, to the right of the zero, you have the high 16 profitable firms. They expand that hiring. The low 17 profitability firms, they cut hiring. So that was the 18 1960s, 1970s, up to the early 1980s. But when you start rolling this forward into the 1990s, 2000s, 19 2010s, that relationship changes. In particular, it 20 21 changes at the top end.

22 So this relationship becomes asymmetrical 23 because the high-productivity firms don't hire 24 anymore. Low-productivity firms still fire. So what 25 we see is we have some of these -- quote, unquote --

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1 superstars, they don't pass on their great 2 profitability shocks into employment. Well, the 3 obvious question, then, is do they at least pay high 4 wages, though, because they are -- they should pay 5 high wages for two reasons. A, they are very б profitable, they get a high T of P shot. And, 7 secondly, since they don't hire, the output per worker 8 that remains is higher now.

9 So in other words, talking about wages is basically nothing else -- I want to mention that 10 11 there's a similar relationship also about investment. 12 So the question now is, when we think about do these 13 firms pass on their high profitability into the wages, 14 it's based on nothing else than the question, what is 15 the labor share? The labor share, in principle, if 16 you go to Y, which denotes here GDP, or output, L is 17 workers, the amount of workers, and W is the wage When labor productivity is high, if the market 18 rate. is perfectly competitive, if there are no frictions, 19 if workers can move around and so on, then the wage 20 21 also would go up because workers will compete for what 22 they produce.

However we know that in the aggregate, the labor share, the accurate labor share, the total wage flow, WL divided by GDP has been going down since the

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1 '80s. So that has been documented by a bunch of 2 The interesting part is that downward trend papers. 3 in the aggregate labor share is actually driven by a very small set of firms. About 10 to 15 percent of 4 5 the firms in the economy drive down the aggregate 6 labor share. The other 80 to 85 percent tack on as 7 always. Their labor share is stable but they remain 8 smallish.

9 One way to see that is the following graph. On the left side, we have again like the 1960s. 10 This 11 is the first year when we have data and the right side 12 is in 2012. What I plot on the X axis is the labor 13 share, so how much -- across firms, now. This is 14 firm-level analysis. So on the axis, you see some 15 firms that have a labor share of close to zero. That 16 means they generate a lot of value-added, and only 17 very small fraction, like 0.2, would say only 20 percent of that value added is paid out as a wage 18 19 bill.

And you see the thin black line is the overall distribution, where firms are. You see that in the '60s, in the 2000s, most firms are actually middle-of-the-road-type of firms. What is changing is how big these firms are. These are the gray bars. The gray bars denote where in the spectrum of labor

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1 shares is actually value-added economic activity

2 taking place.

3 And you see by the end of the sample in 2012 most of the economic activity, most of the output that 4 5 is being produced is produced by these incredibly low 6 labor share firms that have very, very high output, 7 don't pay high wages, and they account for an 8 incredible market share. So the question is where 9 does that come from. Do these guys pay low wages, or do they just generate a lot of profits? 10

11 So the way we assess that is we look at the 12 wage scale of these firms. Principally we go back to the distribution of labor shares and ask yourself, how 13 14 does the wage scale look like across that spectrum of 15 labor shares, do the lowlander firms, do the low labor 16 share firms, do they undercut their competitors in 17 terms of wages because they are very dominant, because they operate in very concentrated markets, and they 18 pay low wages, or is it because they're just compared 19 to the other firms relatively profitable but they pay 20 21 the same wages as everybody else?

22 So when we look at the wage scale of that, 23 this is the left graph here, you see that the wage 24 scale, which is the light gray line, is basically 25 almost the same across all the labor share firms. So

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1 that means these few superstar firms at the low 2 spectrum of the labor share that basically don't share 3 with the workers, don't have a labor share because 4 they screw all their workers because of wages. The 5 way they differ is, and this is the darker gray line, 6 is they're immensely profitable per worker. They 7 don't share these profits with their worker. If the 8 labor share was completely the same for all the firms, 9 then these -- the light gray and the dark gray line would be on top of each other and they would be all at 10 11 one labor share, but this is not the case.

12 What -- the primary difference of these firms is in their output side, is in the prices. 13 So they generate these profits predominantly by going --14 15 by charging relatively high prices, not by being, 16 like, fantastically physically more better; that they just have faced demand conditions that allow them to 17 18 charge relatively high prices and you can see these differences are pretty soft, as I said. This is a log 19 point difference here of like .4, .5, so that means 20 21 exponent of that, that's something like close to twice the price for the same -- for the same product in the 22 23 same market at a very fine definition, of course, 24 there are many -- many measurement issues surrounding 25 this.

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1 And these firms generate extremely high 2 profits which they don't share with workers, but they 3 are high prices. The reason one can conjecture, which I want to throw in into the discussion, which is 4 5 behind the -- what's happening on the wage side, is б the reason why they might not share with the workers 7 is these high prices for a given firm, if we follow 8 them over time, are relatively transient. So if you 9 look over time, what's going on, these low labor share firms -- please just look at the right graph, that's a 10 11 bit more intuitive -- the firms that have a relatively 12 low labor share in a given year, if we backtrack them 13 and forward-track them in time, they have a low labor 14 share for about, like, five to eight years, and then 15 that's it.

16 Or because we know this is all driven by 17 relative prices, they have a relatively good time in output markets for five to eight years, and then it's 18 19 over, then they, quote, unquote, go back to normal. That might be part of the reason why they don't share 20 21 with their workers because it's relatively temporary and they say, well, I could either expand, I could 22 23 hire more workers, but then five years down the road I 24 have to get rid of them again, and that's not that 25 trivial.

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1 I can also pay them higher wages now because 2 they're very profitable for me, but in a couple of 3 years I have to lower the wages again or I have to 4 kick them out. And so that might be one reason why 5 they don't share. Over time, these patterns have 6 become much more pronounced so these relative 7 differences of having, like, a couple of good years in 8 the goods market have become, compared to the peers, 9 relatively strong.

10 So to summarize, there is some more 11 evidence, which I want -- we'll skip now, but the --12 to take away again, first of all, the concentration of 13 outputs in labor markets is not the same. It's not 14 exactly lockstep, and the reason is that they are 15 high-profitability firms that don't respond to good 16 profit conditions in terms of employment as they used 17 They also don't pay higher -- the wages that to. these workers generate for them, and the reason why 18 they may not do that is because these are relatively 19 transient things. 20

The firms are engaged in a product market product competition where they are relatively good for a couple of years, then they are overtaken by someone else. We see that eventually they might come back 15 years later, but there is this temporary oligopsony

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1 power, which raises questions that we have to think of 2 and how that translates into the labor market. So these are the basic -- the four main 3 4 points I wanted to raise and bring to the discussion. 5 And on that, I want to hand off to Ioana, who will discuss more the labor market concentration. 6 7 (Applause.) 8 MR. SANDFORD: Okay. Thank you, Matthias. 9 We will hear from Ioana Marinescu. MS. MARINESCU: Good morning, everyone, I am 10 11 very happy to be here and talk to you about the 12 economic evidence for labor market monopsony and what the role of antitrust is in all of this. And first of 13 all, just most of you are aware here, but for some 14 15 people who might be listening to us on the web, it's 16 important to remind ourselves the role of context here 17 for antitrust. 18 There is a legal significance of labor market concentration because the same 19 Herfindahl/Hirschman threshold that is being used to 20 21 assess, for example, mergers, applies to seller and 22 buyer power. So one way to frame this is that for the purposes of antitrust, when we are looking at the 23 24 labor market, we are looking at buyer power as one

25 particular example of buyer power.

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And so in my work, in my recent work, I have been calculating HHIs for the labor market. And as others have pointed out, this raises the interesting and difficult question of defining a market because when you want to calculate an HHI you want to know what the relevant market is.

7 So our working definition of labor market is 8 a combination of occupation, which would define at the 9 SOC-6, which is a fairly detailed occupational classification comprising 820 roughly occupations, 10 11 commuting zone, and quarter. So for example, given 12 that my data is going to be based on job vacancies, 13 this would be, for example, job vacancies for 14 registered nurses in Washington, DC in the first 15 quarter of 2016.

16 And so briefly, why vacancies? Vacancies 17 are highly relevant for unemployed job seekers, the point being that even though there might be employment 18 in many companies, what is of highest relevance to the 19 unemployed job seekers is what companies have openings 20 21 or are recruiting right now, hence the relevance of vacancies to understand the degree of labor market 22 23 competition as faced by unemployed job seekers. 24 So in this first paper that I'm talking 25 about here, we are using data from Burning Glass

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1 Technologies. This is coauthored work with Jose Azar,
2 Marshall Steinbaum, and Bledi Taska, and this data set
3 comprises all -- essentially all online vacancies in
4 the U.S., which itself represents more than 80 percent
5 of the actual job vacancies in the economy.

6 So using the definition of the labor market 7 that I outlined before, which again reminds ourselves 8 that's a commuting zone by quarter, by occupation, we 9 can, for example, draw a map of the average concentration by commuting zone. And, you know, if 10 you just look at every market, defined in this way in 11 12 the U.S., you find that 60 percent of U.S. labor 13 markets are highly concentrated, meaning that they 14 have an HHI above 2,500 or the equivalent of four 15 employers recruiting with equal shares.

16 On average, if you take the average, in 17 fact, there's only about two employers recruiting with equal shares at any point in time. Now, this 18 situation differs a lot with geography. So what this 19 map shows you is that the levels of concentration are 20 21 very high in less densely populated areas, mostly in 22 the middle of the country, and if you look at where we are here on the East Coast, you see a big green band 23 of low concentration because that's where some of the 24 25 most densely populated areas are, and, therefore, on

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1 average, you tend to see a lower concentration even 2 though even there there is variation and some 3 occupations can be highly concentrated. 4 So, therefore, because of this difference by 5 population density, it is also the case that labor market concentration, even though 60 percent of U.S. 6 7 labor markets are highly concentrated, this affects about 20 percent of workers who work in 60 percent of 8 highly concentrated markets. Of course, for antitrust 9 purposes, it is enough to find one market that is 10 11 substantially affected, so I think the 60 percent is 12 relevant but when we are trying to explain likes things like the labor share, then we ought to pay 13 14 attention to how many workers are affected by this 15 degree of concentration. 16 So the second headline finding is that 17 higher concentration is associated with lower wages. 18 So to look at this, we use a different data set which is from CareerBuilder.com. This is the largest online

19 is from CareerBuilder.com. This is the largest online 20 job search engine, together with Monster, captures 21 about a third of U.S. vacancies. So using this data 22 set, we find that a 10 percent higher HHI is 23 associated with a 0.4 percent to 1.5 percent lower 24 posted wages. So these are the wages that companies 25 say they're willing to pay in their ads.

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1 Furthermore, people have, you know, after we 2 got this working paper out, it became, you know, a 3 whole team of other people reached out and did similar 4 research, and two independent studies with different 5 data and different market definitions confirm a б negative association between wages and concentration. 7 One paper by Benmelech and another one by Rinz which just came out very recently, only a week ago or so. 8

9 So this is the broad picture of what's been found so far regarding the level of concentration and 10 11 the association of concentration with wages. I want 12 to raise some issues and talk to you about how I think we're at in terms of addressing those issues. 13 The 14 first one is, and that's a classic, how sure can we be 15 that concentration decreases wages? Is it really that 16 it's concentration, per se, that it is causing lower 17 wages, or are there some other factors that the analysis hasn't accounted for that might lead to lower 18 wages, even though concentration itself is not 19 responsible for that? 20

And, you know, first of all, it's important to note that HHI is only a proxy for labor market power. Alan Krueger, you know, helped us see the bigger picture, and HHI can be correlated with other factors, potentially unrelated to market power, that

1 also lower wages.

2 So what can we do to, you know, assuage our 3 concerns that these other factors might be driving the relationship? So the negative coefficient of HHI on 4 5 wages is robust to a number of controls. So first of 6 all, one concern is that maybe labor market 7 concentration is high simply when there are few 8 vacancies, so when the labor market is down, there's 9 fewer vacancies, and that mechanically could lead to higher concentration. 10

So in our paper, we actually are able to 11 12 control for the state of the labor market. With a time-varying measure, we control for labor market 13 14 tightness, so the total number of vacancies in the market divided by the total number of applications. 15 16 And this is a very, you know, good summary statistic for the state of the labor market as we learn from 17 18 search and matching theory.

19 The second thing we do is we instrument 20 labor market concentration essentially by the number 21 of firms in other markets, and this other paper by 22 Rinz also does that. The results survived there. In 23 fact, the coefficient gets bigger. And, finally, you 24 might also be concerned that as the correlation 25 between concentration and firm productivity, so in

1 this other paper by Benmelech, they also controlled 2 for firm productivity using firm data and they still 3 find a negative association between HHI and wages. 4 So, overall, I would summarize this as 5 saying that these are not perfect experiments. It is б very hard to, you know, find a crystal-clear case of 7 HHI being quasi-experimentally assigned, but the 8 evidence is pretty consistent and robust to a number 9 of concerns.

10 The second issue now I am moving on to the 11 issue of market definition. So obviously this is a tough problem that we need to -- a tough nut we need 12 to crack, what exactly is a labor market? How are we 13 going to define it? So first, just note that even 14 though the three studies I mentioned in the prior 15 16 slide use different market definitions, some use like 17 my own occupations, others use industries, some use counties, some use commuting zone, you find a 18 consistent negative association between wages and HHI. 19 So the exact market definition doesn't 20 21 really matter in terms of the general pattern of 22 finding a negative association between wages and HHI. 23 Of course, the definition will matter for the level of 24 So if you're going to use HHI thresholds, now it HHI. 25 really matters how you define your market because the

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1 level of HHI could be very different. So to do that, 2 and the reason why we chose our definition, is we used a labor market version of the SSNIP test. So the 3 intention for this is that if the elasticity of labor 4 5 supply is below some critical elasticity, the market is well defined, and otherwise it's too broad. б 7 And really the intuition for this is to say 8 that if labor supply elasticity is really low, then 9 firms are able to suppress wages without losing many employees, and thereby it can be profitable to do so, 10 11 whereas if labor elasticity is very high, it is not 12 profitable to suppress wages because you would lose too many employees. And, so we do have very good 13 14 evidence, actually, on the labor supply elasticity to 15 the individual firm. 16 It's typically below two, and a very recent 17 experiment in online environments, where you would think that there are essentially zero frictions, it's 18 super easy to find another job. Even there, the 19 elasticity is only 0.1 for an online job, right? 20 So 21 there is no moving costs. In principle, you can look 22 for a job, and even there, there is very little reaction of workers to differences in wages. 23 24 So basically, low labor supply elasticity is 25 strong evidence for imperfect competition or monopsony

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1 as Alan Krueger pointed out in his introductory 2 remarks. And so if we have such a low labor supply 3 elasticity to the individual firm, this suggests that even the individual firm in some cases can be 4 5 considered a market in itself. It already has enough 6 market power by itself to be a market. So, therefore, 7 an SOC-6 by commuting zone by quarter is likely to be 8 too conservative from that perspective.

9 And so, finally, the last point is how does that apply to merger analysis in particular? So the 10 FTC already has a policy to analyze mergers based, 11 12 among other things, on product market concentration, 13 so HHI in the product market. So the question is, do we even need to worry about the labor market? 14 Mavbe these are perfectly correlated, and so if we worry 15 16 about the product market, the labor market will take 17 care of itself.

But the point is, a separate labor market 18 analysis, we think, is needed because a firm, for 19 example, that sells in the national market can have 20 21 little product market power but a lot of labor market 22 power in local areas right where it hires most workers. So in the meantime, I've done some quick 23 24 calculations to get you some examples. 25 So I have looked at manufacturing industries

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with more than a \$100 million in sales annually, so very big industries. And so an example is on the one end you have the car industry. There, it's relatively highly concentrated in the product market at the national level, but relative toward the industries, it's pretty low concentrated for workers.

7 On the other end of the spectrum, another 8 example is iron and steel. Iron and steel has very low concentration as per HHI sales at a national 9 level, but extremely high concentration compared to 10 other industries in terms of the labor market 11 12 situations that workers are facing in those different markets where I define markets as before by 13 14 occupation, CZ, guarter, et cetera.

15 So I am running out of time, so just to tell you that in my paper with Herb Hovenkamp, we discuss 16 17 how labor market affects can be incorporated in the merger review using the HHI thresholds, and we also 18 discuss the significance of anti-poaching and 19 noncompetition agreements that Alan talked about. 20 21 So just last point about anti-poaching, 22 anti-poaching agreements are very interesting because the existence of an anti-poaching agreement 23 24 establishes that, one, firms are competing in the same

25 labor market, otherwise what's the point of agreeing

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1 not to poach? And, two, that collusion is profitable, 2 because, you know, if it weren't then, again, what's 3 the point to poach since other firms in the market, 4 you know, would take workers away from us anyway. So 5 that can be a good way of going at it if we don't know 6 what the market is, but we have evidence that there is 7 an anti-poaching agreement. That's a good argument to 8 use in that context.

9 So in conclusion, we found that the majority of U.S. labor markets according to our favorite 10 definition of highly concentrated, although as others 11 12 have said I think more work is needed in refining the definition of a labor market, we and others have found 13 14 that labor market concentration is associated with 15 lower wages, and antitrust enforcement can use this 16 evidence and readily take into account these 17 anticompetitive effects on the labor market by adapting existing tools that have been used for a long 18 time for the product market. Thank you. 19 (Applause.) 20

21 MR. SANDFORD: Thank you, Ioana. And let me 22 take this opportunity to remind people in the room you 23 will have a chance to ask questions of the panelists 24 if you wish to do so. We will have FTC staffers 25 walking around with comment cards, so just flag one of

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1 them down and write your question on it. We'll get it 2 passed up to Devesh and I, and we'll see if we can ask 3 it. 4 Okay, with that, we'll now hear from Nancy 5 Rose. 6 MS. ROSE: I want to thank you for the 7 invitation to participate in these hearings, and I am 8 delighted that the FTC is focusing attention on 9 upstream harm, whether that is from buy-side mergers or anticompetitive actions of buyers, something that I 10 11 worked on during my service in the DOJ Antitrust 12 Division. I am proud to have been involved in the 13 challenge to the Anthem-Cigna merger, in which DOJ 14 included an allegation of upstream harm to healthcare 15 providers, resulting from the elimination of 16 competition between Anthem and Cigna as buyers of 17 healthcare services.

18 I met with others across the administration to discuss labor market competition and its crucial 19 role in the welfare of workers and economic growth. 20 21 And I was privileged to work with both economists and 22 lawyers at the DOJ Antitrust Division and the FTC in drafting and issuing the October 2016 antitrust 23 24 guidance for human resource professionals that Alan 25 alluded to earlier, which emphasized not just the

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1 illegality of wage-fixing. There had been already 2 government enforcement actions in that space prior to 3 this against colluders, but more significantly 4 announced DOJ's intent to pursue criminal action 5 against naked wage price -- wage-fixing or no-poach 6 agreements.

7 Those experiences motivated my contribution 8 to the analysis that Scott Hemphill and I developed on 9 mergers that harmed sellers, which Scott testified so eloquently on during the hearing on monopsony and 10 11 buyer power last month. And I thought that was an 12 extraordinarily interesting session, and I look forward to the rest of today's discussion, which 13 14 focuses on one particular group of buyers, mainly 15 workers -- I'm sorry, one particular group of sellers, 16 namely workers.

17 I know my time management skills could use some improvement, so I'm going to start with my 18 bottom-line conclusions so that I get those, get to 19 those by the end. And those are two. First, I would 20 21 sound a cautionary note on the conclusions that we can 22 draw at this point from the wealth of aggregate studies of labor market outcomes. I think it's 23 24 terrific that empirical economists are focusing their attention on these issues, both energizing and 25

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1 informing the policy debate, but despite a wave of 2 academic research that shows aggregate declines in 3 labor share across the economy, growing wage 4 productivity gaps, and correlations between low wages 5 and measures of employer concentration either for a 6 given occupation code or within a given industry, I 7 think we're still a ways from being able to establish a credible causal connection between low wages and 8 9 employer concentration, let alone a causal connection between low wages and anticompetitive mergers. 10

11 Remember that the antitrust laws do not 12 reach the concentration, per se. They reached a 13 concentration that is accomplished either by an 14 anticompetitive merger or by anticompetitive what are 15 sometimes called monopolization or in this case 16 monopsonization practices. So at least for most 17 workers in most settings, we're still a ways from understanding what the cause of the correlation might 18 be, and I would just urge us to recognize that without 19 a cause we have a lot of trouble discerning the 20 21 appropriate solution.

22 Second, so not to end on a totally bleak 23 note, I'm encouraged by a recent empirical study by 24 Elena Prager and Matt Schmidt on hospital mergers that 25 suggest that there may be at least modest adverse wage

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1 effects for specialized occupations -- think nurses, 2 for example -- and skilled workers within that sector 3 who are affected by a merger that substantially 4 increases concentration.

5 I don't think we can yet be certain that the б impact they uncover occurs from a reduction in labor 7 market competition as opposed to a reduction in labor demand -- I'll say more about that in just a moment --8 9 that reduction in labor demand could result from output restrictions due to greater market power by the 10 11 hospitals, pulling back their output and therefore 12 marching down a labor supply curve. Or it could be --13 arise from more efficient operations post-merger, 14 again, marching backward on the labor supply curve.

Those have very different implications for 15 16 policy and antitrust enforcement, but I think that 17 this study is a compelling call not only for further 18 academic research in this spirit, what I might call hand-to-hand combat as opposed to aerial strafing over 19 this landscape, but also for greater consideration in 20 21 select merger investigations where there may be 22 significant specialized occupations that are dependent 23 upon labor market competition between the merging firms. 24

25

So why the caution in interpreting the

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1 empirical labor economics evidence? The first thing I 2 would highlight is that monopsony may not be what you think it is, particularly if you are coming to this 3 from a non-labor-economics background. 4 I learned this 5 lesson the hard way, through talking past a group of 6 labor economists when they talked about monopsony and 7 I said no, no, no, that's not monopsony. 8 As Alan highlighted and I think quite 9 eloquently explained in his remarks, monopsony, as frequently used in labor economics, is not necessarily 10 11 the mirror image of monopoly or oligopoly. Monopsony 12 may be used for many deviations from a perfectly competitive outcome in labor market, not just those 13 14 that arise from having too few employers competing for 15 workers. That's quite different than the way 16 industrial organization economists and antitrust 17 enforcers tend to use the word "monopoly." 18 While monopsony could be a failure of competition due to too few employers, it could also 19 reflect or instead reflect a wide range of frictions, 20 21 including information failures, search costs, transaction costs, unwillingness to relocate, 22 idiosyncratic match quality, and so forth. And even 23 when monopsony may be due to too few employers bidding 24 for a set of potential workers, that situation may not 25

arise from any anticompetitive action by employers,
 either mergers, which are actionable under the Clayton
 Section 7; collusion, which is actionable under
 Sherman Section 1; or attempted monopsony behavior
 actionable under Sherman Section 2.

What that means is that antitrust б 7 enforcement is going to be neither an effective nor an appropriate tool to address most of those frictions. 8 Moreover, some of those work against the existence of 9 and certainly against the argument of monopsony power 10 11 in what I'll call the classic IO sense of monopsony, 12 too few employers, because if wages are customized to 13 individuals, for example, then there is no effect of a 14 If each firm is a monopsonist to the workers merger. 15 it employees, mergers don't have any further 16 anticompetitive effect. So I think we really need to 17 think very carefully about how these different pieces 18 fit together.

But as I said, one of my big concerns is that we don't even know from the empirical evidence yet whether the correlations between wages and measures of employer concentration, what the implications of those are or whether they are causally related to competition. And to explain that, I thought it might be useful to take a look at a graph

1 of supply and demand in a labor market, so if you 2 could just -- I don't have the clicker -- just flip to 3 the next one, that would be great. 4 All right, so this is a little bit messy, 5 apologies to those of you who aren't economists or б even to those of you who are. But suppose we have 7 upward-sloping labor supply curve. That's the red 8 curve that slopes upward, and that seems plausible. 9 In most cases, we would think that higher wages are going to elicit more workers willing to work. 10 With 11 high labor demand, that's, for example, the downward-12 sloping blue curve on this graph, wages are higher than they will be with low labor demand, the red 13 14 downward-sloping curve on this graph. 15 That's true whether markets are competitive 16 and wages are just determined by the employment level 17 where labor supply intersects with labor demand, the 18 label "competitive" shows low labor demand in intersecting with the labor supply curve, but it's 19 also true if employers are behaving monopsonistically, 20 21 which I'm representing by the blue upward-sloping 22 curve.

23 So in either case, higher labor demand is 24 going to be associated with higher wages, lower labor 25 demand with lower wages. Now, why does that matter?

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1 It matters because we can't just tell, I think, from a 2 correlation between the number of employers or an HHI 3 of employers and the wage rate what's going on. Suppose that we are in a market where a new employer 4 5 moves into the area, shifting out labor demand, so б moving from low to high. Wages go up and measured 7 concentration goes down. That's the concentration is 8 coincidental with the wage change. What's changing 9 the wages is an increase in labor demand. Or suppose a firm shuts down a factory. Labor demand and wages 10 will both fall, as will employment; employer 11 12 concentration will rise.

We can't tell from these sets of facts or 13 these correlations whether each employer is moving 14 15 along that red labor supply curve or they are moving 16 along a monopsonistic labor -- what I call marginal 17 labor cost monopsony curve. And I think that problem, that identification problem, which is very similar to 18 what Steve Berry talked about in the first session 19 with respect to concentration studies in general, I 20 21 think that that's a fundamental problem. It's not 22 solved by instrumenting for HHI, with the inverse of the number of firms. 23

In the example I just gave you, it's a change in the number of firms that's changing wages

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1 and changing labor demand and changing concentration. 2 It's not going to be solved by controlling for 3 tightness of the labor market, because if you are on 4 the labor supply curve, you don't have excess supply 5 of labor. You have as many people willing to work at 6 the going wage as is consistent with equilibrium. You 7 just don't know how you got to that equilibrium, 8 competition or monopsony. And it's probably not going 9 to be solved for by a control for firm productivity. 10 I don't want to be too harsh. IO economists 11 ran regressions like this for years, maybe decades, 12 making the same type of inferences from the results. And it wasn't until the late 1970s and early '80s that 13 14 we began to recognize there was a fundamental 15 identification problem confronting these types of 16 analyses and have adapted now to different methods to 17 try and understand market power. But I think that's 18 important to recognize. 19 However, as I told you in my second conclusion, I don't think this means that we should 20

just sit back and say we don't need to worry about labor markets, far from it. The Prager and Schmidt paper on hospital mergers exemplifies, I think, a fruitful direction for scholars that are interested in exploring the evidentiary foundation for employment-

based upstream challenges, and it suggests that mergers that substantially increase concentration may have wage effects, on the order of one to one and a half percent lower wage growth per year for some classes of workers.

6 And I think that this study might also point 7 at a kind of bridge to antitrust enforcement, which 8 is, they show those effects are -- appear for workers 9 in specialized occupations, so in the case of these hospitals, think of nurses or physician's assistants 10 11 or radiologists, others that are specialized to 12 hospital settings, as well as skilled workers, and 13 they appear only for the most significantly concentrating mergers, changes in the HHI of 3,000 or 14 15 more.

16 Now, I think that suggests that we probably 17 haven't missed anything in the hospital setting because a delta HHI of 3,000 is going to get the FTC's 18 attention on the product market side. And we don't 19 need to allege labor market harm if we're blocking a 20 21 merger because of product market harm, which courts 22 are much more familiar with. I suspect the reason 23 they've got observations in their study is most of 24 those seem to be very small communities during the 25 period when the FTC was having trouble getting courts

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1 to agree with its challenges to hospital mergers, 2 which, thankfully, seems to be largely behind us at 3 this point. 4 But I guess I would just close by saying 5 it's important for us to identify where we might want to add labor market analyses, so where there might be б 7 -- where both firms in a merger are significant employers of the same type of specialized labor, but 8 9 whose products may not be sell-side substitutes, as Ioana mentioned in her remarks, or where those 10 products may not overlap enough to hit the horizontal 11

12 merger concentration threshold on the product side. 13 These could be even potential competition or what we sometimes called complementary product 14 15 mergers, where you might think what the firms are 16 doing is similar enough that the employment pools 17 might be similar, but there wouldn't typically be an 18 immediate trigger on the product side. The reason I think this is important is that agency enforcement 19 resources, as those at the FTC and the DOJ know well, 20 21 are quite limited, and if we tell agencies to add 22 extensive labor market analysis to most merger 23 investigations, we should recognize that we are 24 telling them to investigate and challenge fewer mergers overall. In my mind, that tradeoff is not an 25

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1	obvious improvement for workers, for consumers, or for
2	our overall society.
3	So the question is, how to target resources
4	most effectively so we are not missing anticompetitive
5	upstream harm mergers but without adding an entire
6	layer of complexity and additional analysis to all the
7	investigations that we decide to pursue or that
8	agencies decide to pursue.
9	MR. SANDFORD: Thank you, Nancy.
10	(Applause.)
11	MR. SANDFORD: Finally we will hear from Bob
12	Topel.
13	MR. TOPEL: Thanks for inviting me. You
14	know, I got to listen to everyone's comments, and I
15	can cross out a lot of things. I agree with Nancy, so
16	there's my overall comment. Alan and I have been
17	going to conferences like this for 35 years or so, and
18	Alan has a tendency to, whenever he sees a market
19	outcome, he can think of a way to fix it. And I guess
20	I've had a reputation for thinking that market
21	outcomes are sort of intrinsically less fixable.
22	Now, part of the reason I am probably here
23	is that I have some experience with some of the cases
24	that have been referred to. I worked on a little bit
25	the high-tech case and without really revealing too

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much about it, as Alan pointed out, the CEO of one 1 2 high-tech company called up and said let's not poach 3 the engineers of -- from each other. 4 Now, when you're teaching classes, you tell 5 your students, don't make that phone call. Just don't 6 do that, because even if you think it has some 7 procompetitive justification under Section 1, you're 8 likely to be in big trouble. The real question then 9 came down to -- in that kind of matter comes down to, well, how much of an impact did that -- is that likely 10 11 to have in practice? 12 And it turns out instead of, you know, if 13 you're trying to define market in which people competed, the diversion ratio, if you will, for FTC 14 15 and DOJ types of where people came from and where they 16 went, if they left these firms, was extremely diverse, 17 that people came from everywhere, there wasn't that 18 much -- before the challenge acts -- wasn't all that much mobility between these employers. They were 19 coming from everywhere. 20 21 So it would appear that the consequences of 22 that action were pretty doggone small. But having 23 said that, you want to tell them, don't do that

25 the size that Alan referred to.

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because you're going to end up with a settlement of

1 So are there antitrust issues in labor 2 markets? Well, of course, and you would think that 3 they would be -- they would be actionable under the 4 usual -- under the usual criteria of collusion or 5 unilateral conduct. I'll come back to those kinds of 6 things in a minute.

7 And so, yes to that question, and then the 8 second question you might ask is, does rising 9 monopsony power explain the evolution of relative 10 wages and the relative lack of success, in particular, 11 of less skilled individuals. I think the answer to 12 that is likely to be no. So I am going to differ with 13 Alan on that quite a bit.

So in my view, the evidence for substantive 14 15 monopsony power that may be of antitrust concern is 16 pretty thin, both as an empirical matter and for --17 and for the reasons that Nancy stated. Though I am pretty skeptical of Ioana's evidence, and I'm going to 18 come back to that in a minute, suppose for the sake of 19 argument that she's right, that in all of those red 20 21 places on the map, they're kind of red politically and 22 they're red in her map because they're highly 23 concentrated. In these narrow occupations, employers 24 possess some monopsony power. Then you have to -- the operative question is, well, what do you want to do 25

1 about that? How should the FTC or the DOJ concentrate 2 -- or use their resources in these cases? 3 And it's true that you might want to be 4 alert to the possibility of anticompetitive conduct in 5 there, but as Nancy pointed out, merely the possession 6 of some market power, which would here be a small 7 elasticity of labor supply to an individual employer 8 or group of employers, is not actionable in and of 9 The possession of market power is not an itself. antitrust violation. There has to be some 10 11 anticompetitive conduct that goes along with it. 12 So you treat it much the way you would treat 13 any other case that -- it's just kind of Stigler's 14 theory of oligopoly applied to labor markets. There 15 are some plus factors, and if you've got scarce resources, you might want to devote them to places 16 17 where you think anticompetitive conduct might arise. Now, Alan might argue that the putative 18 existence of monopsony power in those red places is a 19 reason for offsetting monopoly power in the form of 20 21 unions, and I don't think that's really -- it's 22 certainly not an antitrust concern. And the other 23 thing to note, though, is that unions have typically 24 been less powerful in exactly those places. And so, 25 and if it was a no monopsony -- and those patterns

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1 have existed forever -- if it was really a monopsony, 2 you would expect that those would be the places where 3 unions would be most successful. Now, Alan makes much of the existence of 4 5 franchise agreements and restrictions within franchise б agreements, and I got to read your paper yesterday so 7 I can -- I am going to comment a little bit on that, and some of your comments sort of indicated that, 8 9 well, I can't think of a really procompetitive reason for doing this. Now, if I had -- if I started Bob's 10 11 Excellent Hamburgers and I had two franchises, I would 12 probably tell my franchises, I don't want you recruiting from each other. You know, you're 13 competing in the labor market. 14

15 Well, why do I want to do that? Because 16 brand name matters a lot, and I am going to have all 17 kinds of vertical restrictions on what people can do 18 and how they can fix the hamburgers and how the store is going to look. And one of the things I want my 19 employers to do is go out and find people, and going 20 21 out and finding people is hard, especially in a 22 business like that.

I used to work in a grocery store, and one of the things I learned is that 90 percent -- this applies to a lot of things, 90 percent of success is

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1 just showing up. And you want to find the people that 2 are just going to show up. That's an investment in 3 individuals. And if I -- if I allow my people to raid 4 each other, my franchisees to raid each other, there's 5 going to be a lot less incentive to invest in that 6 form of human capital. It's not the type of specific 7 human capital we usually think about, but it's really 8 important. Does it have much anticompetitive impact? 9 No.

10 And I read Alan's evidence that a lot of 11 franchises do this as more evidence that this has got 12 to have a good procompetitive reason. Small firms do 13 it, small franchises do it, large franchises do it. Now, can it have some anticompetitive impact? 14 If vou can prove that McDonald's is a valid labor market for 15 16 antitrust purposes, then it might, so you've got to 17 weigh, as always, the anticompetitive effects against 18 the procompetitive effects when you're talking about unilateral conduct. 19

Now, let me come to a little -- just discuss briefly some of Ioana's evidence that -- sorry, Ioana, I'm not buying. And let me find my notes here. So if you'll recall her map, we don't need to put it back up, we had red states and green states. And one of the examples I used to give back when we were talking

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1 about efficiency wages and people saying, well, you 2 know, some firms pay much more than others, is if you 3 think about -- think about the market for economists. And there's -- out in Lincoln, Nebraska, which would 4 5 be a commuting zone, there's basically one place where a professional economist can work, and the Herfindahl 6 7 is going to be really doggone high, and if you go off to Boston, it's going to be really low. 8

9 Well, the average productivity of the 10 economist in Boston is substantially higher than the 11 ones in Lincoln, Nebraska. And so you're going to 12 expect wages to differ in that regard. So my point is 13 that a lot of the differences that you see simply have 14 to do with the composition, even within the skill 15 composition even within these groups.

Now, in reality, that picture doesn't have any impact on Ioana's real evidence. She has that picture that shows that those markets are more concentrated, the red ones out in the Midwest. Or out on the plains. They're more concentrated. And the ones in Chicago and Boston, in and around San Francisco, you kind of expect that.

And then she's got a graph showing that wages go down as concentration goes up, using that cross-sectional evidence, but the evidence you really

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use is within, changes within. And it is worthwhile
 keeping in mind that she's got data from 2010 to 2013,
 which is a very short period of time, and she runs her
 regression because it's got fixed effects.

5 You're only using the within -- the within commuting zone variation, and what she finds is that б 7 for OLS, changes in that concentration have a small 8 impact on wages, about 3 percent. And as Nancy 9 pointed out, a lot of that can come from the fact that when another firm enters you've got greater labor 10 11 demand and wages may rise, especially because this is 12 a short run elasticity.

And then she -- now, oh, and by the way, how 13 big is that 3 percent? Well, the mean HHI in her data 14 is about 3,300 or 3,200, something like that, and a 15 16 change in the log of one is going to be 2.7 times 17 that, it takes you up to almost pure monopsony. So 18 that would be a huge change, and it gives you 3 percent. If that were the impact, it would not be 19 worth the attention of the antitrust authorities to go 20 21 chasing that.

22 On the other hand, she has an instrumental 23 variables regression where the impact of a unit change 24 in the log of the HHI is on the order of 11 to 14 25 percent. Now we're talking about something that might

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1 matter. On the other hand, what is that instrumental 2 variable picking up? It's the instrumental variable 3 is itself the change in the number of firms and a lot 4 of other places, and so the regression that she runs 5 is how much of the within this place -- within this 6 area change in the HHI is explainable by changes in 7 the number of firms being created in other places, 8 which is to say you're picking up aggregate demand 9 effects, and those are much likely to be much larger. So the argument that these findings are due 10 11 to monopsony power strikes me as pretty doggone weak. 12 So I am going to leave my comments there. And I look forward to our discussion. 13 14 MR. SANDFORD: Thank you, Bob. 15 (Applause.) 16 MR. SANDFORD: Okay. We'll now move on to 17 the Q&A portion of our panel, and once again, let me remind those of you in the room that there will be FTC 18 staffers walking up and down the aisles to collect any 19 questions we may have from the audience. 20 21 Okay, I'd like the first question to go to 22 Ioana, Nancy, and Bob both expressed some Ioana. 23 skepticism of the current state of research, including Nancy sounded a 24 your own papers, of course. 25 cautionary note that we may not be there yet in terms

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1 of having a causal connection between concentration 2 and wage, suggested that concentration is not 3 necessarily of direct relevance to antitrust, given what we have control over and what we don't. 4 5 Bob suggested a variation between Lincoln, 6 Nebraska and Boston, Massachusetts might be explaining 7 some of the results that you find. Would you like to 8 respond to any of this? 9 MS. MARINESCU: Yes, I'd love to. Thanks so much for your thoughtful comments, both of you. 10 So 11 let me start with Bob's points. As Bob accurately 12 pointed out, our regression does not rely on comparing 13 Nebraska with Boston or, you know, Chicago, but relies 14 on changes over time in the HHI within a given market, 15 namely, an occupation by commuting zone. So that's 16 the variation.

17 Now, it's true that this could still be driven by labor demand as both Nancy and Bob have 18 pointed out, and what we do is control for labor 19 market tightness, and that, I understand Nancy's 20 21 point. I think in the end what you should control for 22 and how to interpret it depends on your specific 23 model, so, for example, under perfect, you know, 24 competition, workers indeed will also be less likely 25 to apply if wages are lower, but we've seen that the

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1 elasticity of labor supply is very low. So if that's 2 the case, you know, tightness would not react much on 3 the worker side. It might react on the firm side. 4 But this is something that in any case needs 5 more investigation, and that's why I have started -б you know, Steve Berry, in the same hearings, made a 7 similar comment, and we reached out to him and 8 actually we are starting a paper together, you know, 9 trying to do better on that front by using some of the tools that IO has developed in the meantime to address 10 precisely some of these issues. So stay tuned. 11 12 Hopefully we can do better there. Now, there is another evidence that -- there 13 is another point that Bob made, which is regarding the 14 15 IV, so it is true that it could be correlated with, 16 again, labor demand at the national level. One thing 17 we do is that we, in our OLS, we can control for occupation by time fixed effect, thereby absorbing 18 some of the national changes in labor demand for each 19 occupation. 20 21 And that doesn't affect at all the effect of 22 our concentration in the OLS, so it's just one 23 particular way of controlling for time-varying changes 24 in demand in the occupation level. So this is 25 reassuring, but granted, you know, it's the usual

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1 discussion of omitted variable bias. You know, it's a 2 little bit hard to be foolproof there. 3 MR. TOPEL: Ioana, let me just clarify 4 something about that. 5 MS. MARINESCU: Yeah. 6 In the IO estimates, you're MR. TOPEL: 7 using the portion of the within region or within 8 commuting zone variation that's predictable by the 9 national changes. So that says that this part is predictable by what's happening everywhere else. So 10 11 you'd expect -- what you'd expect to find is that the 12 idiosyncratic parts that allow people to move across 13 areas is going to have a small impact on wages because people are mobile. On the other hand, if everybody is 14 15 moving together, you'd expect a larger wage impact, 16 and that's exactly what you get.

MS. MARINESCU: Right. And so in the new version of the paper, we do a bounding exercise, which I am not going to bore you with, but, you know, if the variable instrument is partially endogenous, there is a way to give bounds, and, you know, we find that even if it's quite endogenous we still find the negative effect. Of course, the magnitudes change.

Now, what we can bring to the analysis is rely on the new analysis by Prager and Schmidt, which

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1 I think is fascinating on the mergers in the 2 healthcare industry. And there, the nice thing about 3 their work is that, well, you know, as Nancy pointed 4 out, we are using these HHIs everywhere, which is kind 5 of nice in a way because we're capturing everything. 6 But the big downside is that we don't really -- we 7 can't really account for what's truly going on. 8 Why is HHI changing in a given market? Who 9 knows, right? So that's a problem, and in the study of healthcare mergers, like the one by Prager and 10 11 Schmidt, at least we can have a better handle on 12 what's really going on, what's causing these changes 13 in HHI. 14 And I think their study is quite nice 15 because it's able to do a good job, I think, of 16 accounting for some of these demand effects. For 17 example, they look at whether there are pre-trends in wages before the merger happens, which might happen if 18 there was a demand shock that occurred prior to the 19 merger, and they don't find any evidence of that. 20 21 They also looked at the effects on wages of 22 out-of-market mergers, so mergers between companies 23 that don't, you know, happen to overlap in markets. 24 Those mergers don't have an effect on wages. Or the 25 effect of mergers that were blocked, also no effect on

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1 wages. So I think this is somewhat reassuring that it 2 is not some, you know, labor demand shock that is 3 driving the effects that they are talking about. So I 4 think that is about it. Thank you. 5 MR. RAVAL: So this is to Alan and Bob. б So imagine you have a policymaker that's concerned 7 about either the falling labor share or the stagnating 8 wage. How would you rank the different policy tools 9 that might affect these, and where would antitrust enforcement, either on conduct or mergers, rank in the 10 11 list? 12 MS. MARINESCU: Bob. Do you want to go 13 first? 14 MR. TOPEL: The question was for Alan and 15 me? 16 MR. REVEL: Yeah, but --17 MR. TOPEL: And the question was what policies would affect labor share? 18 19 MR. KRUEGER: And wages. MR. TOPEL: And wages? First of all, I'm 20 21 not convinced that labor share is the thing we ought 22 to be looking at. I mean, there's often been a lot of confusion about the decline in labor share and the 23 24 changing welfare of workers. If, for example, the price of capital declines, that there is some evidence 25

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1 for or at least prices of certain types of capital 2 declines, or if there is capital bias technological 3 change which is equivalent, and if the elasticity of substitution is a little bit above one, you get a --4 5 you'll get a decline in labor share of national 6 income, but there is more capital, and all -- and the 7 workers get more capital to work with. 8 So the marginal product of labor is going to 9 Now, it's true, that might take a few years to rise. play out, but simply a decline in labor share of 10 11 national income is not an indicator of welfare or 12 monopsony power or anything like that. So would I 13 want policies that are targeted at labor share? No. 14 MR. KRUEGER: How about wages? 15 MR. TOPEL: Are there policies that could 16 affect wages? Sure. 17 That was the question. MR. KRUEGER: 18 MR. TOPEL: Okay. Yeah, what would happen to the wage -- people say at the bottom of 19 the wage distribution. Well, in my view, a lot of 20 21 what's happened is that -- is due to skill-biased, 22 technological changes. It's been very disadvantaged 23 -- disadvantageous to people at the bottom of the wage 24 distribution. Interventions there are likely to make 25 human capital even more scarce than it was before.

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1 One solution would be an immigration policy 2 that put more emphasis on changing the skill ratio 3 itself because that's been a big disadvantage to less 4 skilled people.

5 MR. KRUEGER: Why don't I respond a little б more generally to what Bob said earlier as well as 7 answering the questions. I agree with Bob on labor 8 I think if we focus on policies to raise wages share. 9 that will probably end up raising labor share. In the short run, having a strong macroeconomy seems to be 10 11 the best advice. Of course, you don't want to 12 overheat the economy and have another crisis like we 13 had ten years ago. But since the work of Arthur Okun 14 on a high-pressure economy, that seems to help people 15 particularly at the bottom over the long run. I agree 16 on human capital investment, preschool, help for post-17 secondary education and so on.

18 I think there is a lot of common ground between Bob and me in that we both would like to see a 19 competitive labor market. I think the difference is I 20 21 have my doubts about how competitive it is to begin 22 with. In fact, the graph that Nancy showed with the 23 upward-sloping supply curve, to labor economists, 24 that's actually guite controversial in that the explanation for industry wage differences is that 25

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1 there are different supply conditions to different

2 industries.

3 We don't have the law of one price, and the 4 model that you graphed, you've got, you know, very 5 different markets for homogeneous labor. That's the 6 way I was reading what you showed. Or in any event, 7 you know, labor economists will call anything where 8 there is an upward-sloping labor supply curve 9 monopsony. It doesn't matter to us how we got there because you get monopsony-like effects, which is why 10 11 Alan called his book Dynamic -- or Monopsony in Motion 12 because the search frictions give individual firms an 13 upward-sloping supply curve.

14 And in that kind of an environment, the 15 existence of noncompete agreements and no-poaching 16 agreements can have an effect on wages, whereas if you 17 start from a model where you've got an infinitely elastic labor supply curve, which is the competitive 18 model, those agreements wouldn't really matter because 19 workers are just paid the same wherever -- wherever 20 21 they're working.

22 Bob, I think unfairly, said that I look for 23 government interventions to solve these problems. 24 Some are no doubt beyond the reach of antitrust 25 policy. I haven't been an expert in any of these

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1 cases, so I don't have the insights that an expert 2 might have. I also don't have the potential conflicts 3 that an expert might have. 4 MR. TOPEL: I was teasing you, Alan. 5 MR. KRUEGER: I wasn't referring to you, per б se. 7 MR. TOPEL: You said unfairly. I was 8 teasing you. 9 MR. KRUEGER: Oh, okay. Anyhow, you know, in some of these cases, it's pretty clear what the 10 11 loss is to the workers. If a hospital reaches out 12 because they have vacancies because they have colluded 13 with other hospitals about hiring, and they pay \$40 to 14 temporary nurses and the staff nurses are paid \$30, 15 that suggests that the marginal product of the nurses 16 is at least \$10 higher. 17 I agree that in some situations having bilateral monopoly would be a better solution, you 18 know, having more labor unions. I agree with what 19 Nancy said about antitrust having to think about how 20 21 to use its limited resources. 22 I also wonder, and I don't know how common 23 this is, since this is not my field, if you have a 24 case which is on the margin on the product market 25 side, if the labor market side could put that over the

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top, that if you take labor market side in addition to the product market side into account, so it could potentially end up blocking more mergers that are harmful to workers and to consumers if the labor market side is added to the equation as opposed to focusing exclusively on the product market side.

7 And I am a bit confused about Bob's argument 8 on Steve Jobs who told Google if you hire any of my 9 workers this means war, that Bob would recommend that 10 that's not a good thing to say and it's not a good 11 practice to put in place. But then when it comes to 12 no-poaching agreements, he said they're fine, they 13 could be in contracts.

14 And the argument that Bob gave about the 15 brand value, I think, is an argument based on 16 anticompetitive rationale. You want the franchisees 17 to hire good workers, and you want to pay them less than they could get elsewhere, and you say to them, 18 you may add value to our brand, but the only place you 19 could go is outside our brand, we're not going to let 20 21 you go to another establishment within our brand. 22 So, again, I'm not an expert in these cases

23 but I would think that that's an argument that this is 24 an anticompetitive practice, rather than a business 25 justification that would pass muster under the law.

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1 MR. TOPEL: I'll just say that you were 2 unfair there, but let's keep going. 3 MR. SANDFORD: Okay, next question. MS. ROSE: Could I -- since I'm implicated 4 5 in Alan's remarks, do you mind if I weigh in on that? б MR. SANDFORD: Sure. 7 MS. ROSE: So two things I wanted to say. 8 So first, working in reverse order, two weak antitrust 9 cases do not a successful challenge make. So I think if the question was, is there a strong labor market 10 11 case and a product market case that might not be as 12 strong, and that was why I gave it the -- touched at 13 the end about maybe a potential competition or a 14 complementary product merger, where it's very hard, as 15 the FTC knows well, to successfully challenge on 16 potential competition grounds. If there were a strong 17 labor market case, you might bring that challenge and bring it successfully. 18 19 We don't know because courts have not yet decided a merger, even on a buy-side, a litigated

decided a merger, even on a buy-side, a litigated merger, even on a buy-side harm that doesn't involve labor market but other suppliers, we don't know how they'd respond to labor market. It would be a challenge, but it's probably one that's worth exploring and testing and developing.

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But to say, you know, the product market's at the margin and the labor market's at the margin, I don't think you bring that case because you have the potential not only to go down but for bad law to be made as well.

6 Okay, next question. MR. SANDFORD: So Bob 7 just said that in his view the labor share doesn't 8 really matter, it should not be a concern of 9 policymakers directly. Yet, Ioana's work, the Benmelich paper and the 2016 CEA report on labor 10 11 monopsony all cite the declining labor share as a 12 motivating fact.

13 So let me read from Marinescu and Hovenkamp, 14 "The share of GDP going to labor has been declining at 15 an alarming rate. This may result from several 16 things, including suppression of unions and increasing 17 concentration in product markets, but lax antitrust 18 enforcement could be a major source as well."

19 So the first question is, should we care 20 about the declining labor share; and the second 21 question is, well, while Matthias just presented 22 results that suggest a decline in labor share is due 23 primarily to a reallocation of production to superstar 24 firms, and that's -- that seems to me to be an 25 explanation that is perhaps orthogonal to antitrust,

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1 would you agree with that characterization, and do 2 Matthias' results cause you to update any priors about 3 how concerned we should be about labor market 4 monopsony. So let me ask Ioana that question first, 5 and then anyone else that wants to weigh in can do so. б MS. MARINESCU: Right. So this evidence has 7 been coming up. Between when I wrote this and now, we've had more evidence, for example, about trends in 8 9 labor market concentration, which we didn't have at the time, and with my vacancy data it wouldn't make 10 11 sense to look at long-run trends because the vacancy 12 data has changed so much over time.

13 So, you know, I still think that this needs more research, but it is fair to say that right now, 14 15 with the kinds of data that people have just based on 16 employment concentration and typically at the industry 17 level, there has been a decline in labor market concentration, and, therefore, it is not as clear how 18 19 exactly this plays in the trends. So, you know, to what extent labor market concentration trends, not 20 21 levels, I think I want to make a distinction between 22 that, explains wage stagnation.

23 So, but, you know, here are some interesting 24 avenues I think for future research. So first of all, 25 again, labor market definition is critical, and one

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1 issue when you compare over time is to ask yourself is 2 the definition of the labor market -- should it stay 3 the same over time? And that is a critical question, because for example, we have done some preliminary 4 5 analysis looking at the impact of population density б on the scope of geographic search of workers, so 7 basically, in more densely populated areas, commuting 8 times are longer, there is more congestion and people 9 tend to search closer to, you know, where they live, for example, and that is changing over time, 10 11 differentially over different zones.

12 And, so after you adjust for that, for example, the decline in HHI doesn't seem to be as 13 strong. Just as one example of an issue that needs to 14 15 be addressed in terms of thinking about the definition 16 of the labor market. Other things that, you know, 17 might be interesting to think of are things like multimarket contact or changes in common ownership, 18 so, you know, I believe that we need to learn more 19 about the trends and how the whole, you know, story 20 21 fits in.

I feel more confident about the general relationship between concentration and wage -- you know, even to be less controversial, market power because I think the labor supply elasticity evidence

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1 is much stronger, better identified than the 2 concentration evidence. So I think there is an issue 3 of market power and that it's very clear that there is 4 such an issue of market power and power in the labor 5 market. But exactly how the trends have played out, I 6 think at this point is less clear, and we have to, you 7 know, further investigate to learn more about that. 8 MR. SANDFORD: So does anyone else want to 9 comment on whether we should care about declining labor share? Matthias? 10 11 MR. KEHRIG: Sure. Happy to talk about 12 this. On principle, when we talk here about wages, 13 this is not the point that we -- it's not about wages, it's about welfare. And when we think about welfare, 14 15 we have to think about, what is your wage and what is 16 the price level. So it's really about real local 17 wages that we should be concerned about. The labor share gets it a little bit closer to that because it 18 19 relates the wage to the nominal output by the share of that stuff. 20

21 When we started our research on the labor 22 share, we tried to come up with for reasons for why 23 the labor share went down. We explored about half a 24 dozen avenues related to labor market factors in the 25 hope that there was an explanation. So we looked at

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states that become right to work, is it that now there is lower bargaining power that we see actually the labor share declining in those states, and the evidence is basically very muted.

5 And we also looked at -- we looked at б regions where unionization has been going down a lot, 7 basically manufacturing has been exodus from the Rust 8 Belt, the Midwest, down south where wages generally 9 are lower, the regulations are lower, they have much more free reign. Boeing is shifting production from 10 11 Washington to South Carolina. All car manufacturers 12 have plants in Tennessee, South Carolina, Alabama. We 13 don't see a big impact on the labor share.

14 We also looked at concentration to see 15 basically Walmart comes to the county, does that lower 16 the wages a lot in that county? And the evidence 17 again was pretty muted. So the labor share -- we have basically a paper where there's a big graveyard 18 section at the end, where it's like all these 19 unsuccessful hypotheses that empirically don't really 20 21 hold up.

It took us two years of testing to find out, like, that actually the main action is at the output side, at the price side. So this is in terms of labor share the one thing that we have to understand in

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terms of when we think about this in the context of the labor market. We have to think, what does it mean for the consumers, for your real purchasing power? Of the wage that you have?

5 And that is one -- one thing that I wanted to add to the discussion about local concentrations, 6 7 so there are two things. Labor markets are regional, 8 they tend to be regional. You have a certain set -- a 9 pool of people that live there and a certain pool of employers that hire there, and that's it. Goods 10 11 markets are not. So when you consider antitrust cases 12 and you consider the labor market consequences, that 13 is very hard to assess because we have to have --14 basically keep in mind that the firm's action -- they are active nationwide. And -- but they -- in the 15 16 local market, they act locally. So that's one aspect. 17 The second aspect I want to say is, what is the difference between concentration at the local 18 level and at the global level? So locally it might 19 well be that concentration is going down because a new 20 21 employer moved to town. But if basically we know that at the product level side, there has been a lot of 22 consolidation, so if it is the case that basically if 23 24 you live in County A or Commuting Zone A, and your 25 options are work for Walmart, become a Starbucks

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1 barista or something else, in the old days, you used 2 to have the option to pack up and move elsewhere and 3 you would face different employers, different firms. 4 Today, you again have Walmart, Starbucks, 5 and some other local firms. So basically these firms, б when they set their wages locally, they keep in mind, 7 they set a whole menu of wages, not only just in that 8 one commuting zone, but also in the neighboring -- in 9 the neighboring regions. So that's important to keep in mind to assess the whole situation about local 10 11 concentration, what are the neighboring, what are the 12 other options for the workers to go elsewhere, and 13 what are the local prices. Oh, and to add also the last thing about the 14 15 labor share, what Bob Topel said earlier, there's the 16 story that capital deepening is behind the labor share 17 decline. This is also not the case. MR. KRUEGER: I would have described labor 18 19 share as a symptom rather than the cause. And Matthias showed before that there seems to be less 20 21 profit-sharing, less rent-sharing or less sharing of 22 the gains in productivity at the superstar firms. 23 And another development which is consistent 24 with that is that firm size premium is smaller than it 25 used to be, so larger companies used to pay higher

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1 wages, and that gap is much smaller, which is 2 consistent with weakening of worker bargaining power, 3 the places where there are rents where workers could 4 get a bigger share of the pie, they're not able to for 5 whatever reason. 6 Some of those reasons are beyond -- well 7 beyond the reach of antitrust policy. Some antitrust 8 policy may be able to have a significant effect if the 9 October 2016 guidelines are enforced and so forth. I'm not aware of any criminal cases. That could send, 10 11 I think, a very strong signal across many different 12 employers. 13 So I think of it more as a symptom, and one

14 of the causes may have been weakening bargaining power 15 related to anticompetitive practices.

16 MS. ROSE: So I want to echo that, but, 17 Alan, I don't know why you are going to 18 anticompetitive practices because it seems to me having in my youth worked on rent-sharing and hearing 19 some of the discussion that you've had here today, 20 21 that weakened worker bargaining power may be due to a 22 whole set of institutions on the labor market side 23 that really have nothing to do with competition among 24 employers or with antitrust.

And I would have thought if we were trying

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1 to choose an answer that required kind of the least 2 steps of logic to get there, that would be the place 3 to begin. I mean, we certainly have, as your earlier remarks indicated, a lot of evidence that there's been 4 5 a decline, say, in not just unionization rates but б union bargaining power as a consequence of that more 7 difficulty in unionizing firms and so forth. And I think -- I think this discussion of 8 9 worker rent-sharing also weighs into that. What we're asking for, if we think rent-sharing created a kind of 10 11 golden age where workers were paid more, I am not 12 saying this as a former antitrust enforcer, but we 13 want less competition, not more, to get those rents 14 created and then shared with workers. And so I do feel we're chasing after a bunch 15 of symptoms that make us concerned, and somehow for 16 17 some reason we have glommed onto antitrust, but it is neither, as I said before, the most effective nor 18 appropriate nor probably legally available tool for a 19 lot of what we're concerned about. 20 21 MR. TOPEL: Let me respond a little bit. Ι 22 think that raises a very important point. I don't 23 think they're independent. I think the decline in 24 unions helped to lead to some of the anticompetitive

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practices, that it's harder for employers to have --

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require noncompete agreements if there is a labor union which is negotiating a contract and says we don't want a noncompete agreement. It's harder for companies to have anti-poaching arrangements if franchises are unionized, so I don't think that they're independent.

7 And I don't want to argue that the significant changes we have had in the labor 8 9 market have developed because of an increase in 10 anticompetitive practices I think that's a 11 contributing factor. I think there are others which 12 way may well be more important. So I don't want to 13 be -- I don't want to mischaracterize myself in 14 saying, you know, this is the instrument that we 15 should use because this is the problem.

16 On the other hand, there are very few 17 instruments that are available currently. So if you say what are the tools that we could use, especially 18 if they've been underutilized, which I think has been 19 the case, that, you know, the franchise contracts have 20 21 been allowed to have no-poaching agreements for 22 decades. It's only recently because of the actions of 23 the Attorney General in Washington State that 30 24 franchises have dropped it, affecting hundreds of 25 thousands of workers.

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1	So I think these are tools that were in our
2	toolkit that were underutilized, but I don't and
3	they're available, but I don't think they are I
4	wouldn't necessarily I think we don't know enough
5	to say that anticompetitive practices are the main
6	reason, and I suspect it's probably not the case.
7	MR. RAVAL: That's essentially a nice segue
8	to my next question. So this is about the definition
9	of monopsony. So maybe one of the classical
10	definitions of monopsony would be you restrict the
11	amount of labor hired into the amount of output
12	generated, and then there's going to be a welfare loss
13	of dead weight loss in the output market.
14	But you could also think about things like
15	a change in bargaining power between labor and
16	management, and workers are now getting a smaller part
17	of the joint surplus from their employment. So should
18	this be considered with should we be as
19	antitrust enforcers be worried about changes in
20	bargaining power? Is that an interest or concern or
21	not?
22	MS. ROSE: So I'll say yes. I've got a Yale
23	Law Review paper with Scott Hemphill that says
24	absolutely yes. I think the antitrust law requires us
25	to focus on actions that reduce competition, and if we

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are reducing competition and that's what's leading to sort of reduced -- or increased employer bargaining power, say, and an ability to suppress wages, we should worry about that if it's coming from a merger, say.

б If it's reduced bargaining power by workers 7 because we have become more hostile as a country to unions, that's not an antitrust -- that's not an 8 9 anticompetitive effect that's coming through the action of the firms. And that is probably not 10 11 something that we can reach. But I think -- I think 12 the notion that we need an output reduction as opposed to a transfer of wealth is very misleading. We don't 13 do that on the product market side, typically, and so 14 15 I don't think we should be doing it on the input 16 market side either.

17 Bob may disagree.

25

MR. TOPEL: No, I agree with what you said. If it's due to a reduction in real competition, then it is an actionable thing. It's within the purview of antitrust policy. If it's due to other phenomena, you referred to hostility, but there's a lot of reasons of the decline in the fraction of labor force belongs to unions. I'm not suggesting --

MS. ROSE: Right, right, it could be

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1 anything, but right.

2 MR. TOPEL: -- that you're -- it could be 3 anything, but none of those really fall within the 4 purview of antitrust policy.

5 MR. SANDFORD: Okay, next question. So б speaking as an antitrust enforcer, I mean, to a first 7 approximation, we block mergers if we think the price 8 is going to go up. A merger that might increase 9 employer concentration is going to, we would think, cause wage to go down. Wages go down, the price of 10 11 the product purchased by consumers may go down as 12 well.

13 And so, one, is it clear that -- what is the path to address concern about labor market 14 15 consolidation from a merger if it would cause the 16 product market price to go down? And, two, how would 17 we balance a merger that might increase labor market 18 consolidation but have other efficiencies that would cause the product market price to go down? And so 19 that's probably most appropriate for the antitrust --20 21 people with antitrust experience. We can start with 22 Nancy.

23 MS. ROSE: Sure. I'd love to weigh in on 24 that. So I think the first and most important thing 25 to keep clear, and I am not saying that you weren't

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1 recognizing this, but I think in these discussions, 2 particularly among antitrust practitioners, if it's a 3 classical monopsony case where the firm is withholding 4 employment to drive the wage down, the firm does not 5 perceive that lower wage to come with a lower cost of 6 hiring a worker. If you go back to that curve that I 7 showed you, the firm is perceiving the marginal cost 8 of hiring another worker to be very high because it 9 has to pay a higher wage to everyone.

10 So in a classical monopsony case, there's 11 just an output restriction by the firm that's 12 exercising monopsony power. There's no lower cost to 13 pass on. In the bargaining case, that might not be as 14 apparent or might not be true. There might be no 15 employment effects, no output effects, just a transfer 16 of rent -- just, but a transfer of rents from workers 17 to the firm due to, say, an anticompetitive merger. And as I said before, our merger law requires us to 18 challenge mergers that may substantially reduce 19 competition. 20

I think it's misleading to say how should we balance. It's like saying there is a merger in the product market that has product market benefits for some set of consumers or some set of products or purchasers, and it has harms in other product markets.

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1 Should we say, well, let's add them all up and say if 2 the total is that the group that wins, wins by more 3 than the group that loses, loses, we just let it go. 4 And I don't think we typically do that. I 5 think if we see that there are -- and, of course, б there's always prosecutorial discretion, but if we see 7 that there are a group of consumers that are harmed by 8 an anticompetitive merger, we challenge. It might be 9 that if the mergers got mostly benefits and there is one small group that's harmed, we accept some kind of 10 11 remedy that solves the competitive harm and preserves 12 the benefits. But I don't think we tend to agonize 13 over that balancing in the product market side, and I don't think we should agonize over that balancing when 14 15 the harm is going to workers. MS. MARINESCU: Yes, and actually in my 16 17 paper with Herb Hovenkamp we discussed this point and come down to the same conclusion based on case law. 18 19 MR. RAVAL: So the next question, so for better or worse, whenever we're doing an antitrust 20

21 case, one of the basic things we need to do, and which 22 is often kind of the biggest part of the legal case, 23 is introduce market definition. So in terms of labor 24 markets, how should we approach geographic and product 25 market definition?

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1 And in particular, this is a point that Bob 2 picked up, you know, if you think about the market for 3 university professors, Lincoln, Nebraska is probably 4 not -- Lincoln, Nebraska is probably not a market. 5 The market should be maybe more broad or more 6 national. So how much labor mobility do we need in 7 order to define a broad market versus a narrow market? 8 MR. TOPEL: And over what period of time? 9 Does mobility have to -- or that elasticity have to occur? I think that's really -- really an important 10 11 So as I was outlining in my presentation question. 12 briefly, one of the tools you can use is a critical 13 labor supply elasticity, and this can vary by Right? So I think that's what you're 14 occupation. 15 getting at, that different types of workers might be 16 more or less mobile, and this is something that we 17 actually are able to get data on for various sources, including, for example, transition, say from the 18 current population survey, across geography for 19 different occupations. 20

In my current work in progress, with Jose Azar and Steve Berry, we're using a very detailed microdata set of applications from workers, two jobs where we have every occupation under the sun, and we see the distribution of applications, which kind of

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1 allows us, by occupation, to see the variety of 2 geographies and other types of jobs that people are 3 applying to. 4 So there definitely exists ways of getting 5 at that, if we're interested in estimating those 6 elasticities. And this is something that we are 7 actively working on. 8 MR. KRUEGER: Just to add as a practical 9 matter, labor markets tend to be more regional for less skilled workers, more national for highly 10 11 educated workers. It's going to vary a bit by 12 occupation, but that's what one generally finds. And we do have data available to do the kind of analysis 13 14 that Ioana was mentioning to look at where workers are 15 moving, how are they defining the markets and use that 16 as an input, I think. 17 MR. SANDFORD: So are mergers that lead to

worse outcomes in the labor markets more likely to 18 involve high skilled workers or low skilled workers? 19 I mean, it seems to me like low skilled workers have 20 21 many maybe different occupations that they could --22 it would be easier to shift occupations if you are low skill, but if you're high skill, you're likely to 23 24 be -- you know, when I was a professor at University 25 of Kentucky, the nearest comparable employer was like

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1 75 miles away, and I couldn't really go anywhere. So 2 it seemed like I was more locked in as a high skilled worker there than low skilled worker. 3 4 Maybe I'll pose that to Nancy. 5 MS. ROSE: So I wanted to weigh in. When I б was thinking about what mergers we might have missed, 7 and I have a candidate, the candidate popped at first 8 because the second most highly concentrated occupation 9 in Ioana's work was -- in one of her papers was railcar repairers, and that called to mind an April 10 11 2018 DOJ no-poach action against rail equipment 12 manufacturers, in Knorr-Bremse and Wabtec, that alleged that the companies had "for years maintained 13 14 unlawful agreements not to compete for each other's 15 employees" and moreover had a similar no-poach 16 agreement with Faiveley Transport before Faiveley was 17 acquired by Wabtec in November of 2016. 18 What this no-poach complaint said was that they'd entered into what they called pervasive no-19 poach agreements that spanned multiple business units 20

21 and jurisdictions involving typically -- it said

22 primarily affecting recruiting for project management,

23 engineering, sales, and corporate officer roles.

24 So I wonder if sometimes we have some 25 indication of what these labor markets might look like

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1 by the extent, when we uncover a collusive agreement 2 by the extent or the incidence of where the no-poach 3 agreements are being pursued, and that does suggest a 4 more high skilled occupation mix, maybe not, maybe not 5 as specialized as I would have expected it to be, but 6 it doesn't sound like they were entering into no-poach 7 for the janitorial staff or even the low-level factory 8 workers, suggesting that maybe we worry more about 9 that typically. Again, not always. We'd have to look at facts and circumstances, but maybe more with the 10 11 higher skilled and more specialized workers, and 12 that's certainly consistent with what that hospital 13 mergers paper found.

14 MS. MARINESCU: And, you know, that just 15 gives you the easy way out in the sense that if there 16 is the no-poach agreement, that's a very good piece of 17 evidence to use. You don't necessarily need to --18 and, you know, at least the further evidence would be confirmatory instead of having to dig deep into the 19 elasticity of labor supply for that particular, you 20 21 know, kind of occupation.

MS. ROSE: Well, let's be clear if you were going to challenge the merger, this might be a useful screen. You're not going to win a merger case by just saying, look, it must be a labor market, they had this

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1 agreement here. I think anybody who's been involved 2 in litigation would be leary to go to court with just 3 that argument. 4 MR. TOPEL: Putting aside collusive conduct, 5 do we have good examples of, like, in the realm of б mergers, we have all kinds of examples of possibly 7 mergers for monopoly that can be challenged because it's going to affect prices in the output market. Do 8 9 we have any examples of merger for monopsony where the purpose was to reduce wages in the labor market? Or 10 11 are we chasing unicorns here? MR. KRUEGER: You know, it's interesting. 12

I'm not sure there's an answer to that, and on the chasing unicorns, when the October 2016 guidance was discussed, that very same question came up about, well, how common are these no-poaching agreements, wage-fixing agreements --

18 MR. TOPEL: But that's the collusive --

19 MR. KRUEGER: Let me finish, Bob.

20 MR. TOPEL: -- side, yeah.

21 MR. KRUEGER: And the assistant attorney 22 general, Makan Delrahim said he's been shocked by how 23 many cases there are. And part of the guidance set up 24 a hotline for people to call in. So I think, you 25 know, I started my remarks by saying this is an area

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where I think we are learning a lot, where there has been a lot of active research. I don't think we know the answer to that, but in some areas it looks like the anticompetitive practices are more common than was widely understood.

6 MS. ROSE: So I think it's harder to get 7 that information on the labor side, but it's not 8 impossible, right? So when you start a merger 9 investigation, you're calling and talking to people in the industry, and you're often getting inbounds, and 10 11 so I think if there was a merger primarily motivated 12 by an effort to push down wages by the two merging 13 parties, and I'm not saying for sure we'd hear about 14 it if it really affected kind of lower level workers, 15 but if higher level workers thought, you know, this 16 makes no sense except that it's going to really 17 eliminate the only people competing for my talent, I would have thought we'd hear some about it. 18

I suspect it's not the main or only motivation, but there could be mergers where -- so like in this rail equipment one where maybe the labor market overlap is more significant than the product market overlap was.

24 MR. TOPEL: Well, you can envision a lot of 25 mergers, let us say for efficiencies, that end up

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1 being labor-saving that because of at least for the 2 short-run elasticity of supply that Ioana refers to 3 there's going to be a large impact on people who've 4 got specific skills with the firm and stuff like that, 5 so that labor costs might decline a lot, and it might not just decline because of a head count but because б 7 you have to pay these people less to retain them, so 8 then you've got to balance anticompetitive impact 9 against procompetitive benefits.

But I'm asking about one that would be specifically like, look, we're not going to be more efficient, we just, in terms of the diversion ratio, we've brought this other unit inside and now we can control the price better than we did before, but the price we're controlling is on the labor market side.

16 MS. MARINESCU: So, Bob, would it be 17 anecdotally thinking about the high-tech sector? We hear about companies buying another company in order 18 to get their software engineers so, you know, that's 19 only anecdotal. I don't know, you know, how much 20 21 evidence we have on that, but at least you hear those stories regarding, you know, buying the pool of --22 23 MR. TOPEL: Well, that comes back to high-24 tech, you know, I want to hire the software engineers 25 from the guy across the street because they know a lot

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1 of good stuff that my folks don't know. So that's 2 more like proprietary information I'd like to get my 3 hands on. 4 MR. KRUEGER: Another example was the film 5 animators, Lucas Film and Disney, which had a big 6 settlement for no poaching, and then they merged. And 7 it's a little hard to say that they did it to get, you 8 know, the human capital before they agreed not to 9 poach from each other. MS. ROSE: Right, although there you would 10 11 want to investigate sort of what the labor market 12 looked like, right? Was there something about these 13 two firms reaching an agreement but that were lots of 14 other competing employers or not. 15 MR. KRUEGER: I don't think there were. 16 MS. ROSE: I see. I mean, that's -- I think 17 that's the kind of thing that antitrust enforcers know how to do. I think what's great about this literature 18 and this discussion and these hearings is that it's 19 maybe encouraging us to think, to ask some of these 20 21 questions early on in an investigation to determine 22 whether this might be one of -- you know, maybe it's 23 not a unicorn, but maybe it's one of the rare ones 24 where labor market issues might come to the front. 25 MR. RAVAL: So if you look at the research,

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1 we talked about a lot of research today, and if we 2 look at the dates of those research papers, they're 3 2017, 2018. So this is a very new field, and so what 4 kind of evidence would you like to see developed on 5 the antitrust relevance of labor market monopsony? 6 You know, is there a good way to try to get cause of 7 variation of monopsony power and kind of what research 8 needs to be done that hasn't been done yet? 9 MR. KRUEGER: You know, it's interesting. Ι think I think about this totally different than IO 10 11 economists. So what I think we need are good demand 12 tracks to firms so we can estimate through a labor

13 supply curve.

14 And Ioana cited, you know, the manning 15 estimate of the labor supply elasticity, and I cited 16 one by Webber, but that's one where I think we could 17 probably use more compelling evidence. Now, to us, 18 To labor economists, I think it is news it's news. that firms face upward-sloping supply curves because 19 that's not the standard model that we use. 20 The 21 standard model that we use is law of one price, 22 infinitely elastic supply.

23 So that may be of no interest to antitrust 24 or IO economists but, to me, that, I think, is a 25 priority for research.

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1 MS. ROSE: Right, but for antitrust, it's 2 not just --3 MR. KRUEGER: Oh, it's not for antitrust. 4 MS. ROSE: Right. 5 MR. KRUEGER: You know, one of the -- I'm б unburdened by not having been a witness and not being 7 -- not being an expert and not being an IO economist. I think for understanding the way the labor market 8 9 works, which sets kind of a milieu for thinking about where anticompetitive practices can occur, I think 10 11 that's a really important first step for us, that the 12 mindset is still one, largely, although it's beginning 13 to change, where it doesn't matter if employers collude because they can't affect anything. 14 The 15 market is so competitive. The practice is not going 16 to affect wages. 17 And how does that get squared MS. ROSE: with all of the work that, for instance, you did in 18 your youth on interindustry wage differentials and 19 rent-sharing and all of that? 20 21 MR. KRUEGER: Well, that's why I think it's 22 a much better way to think about the labor market. But I think we're kind of at a turning point now where 23 there is a lot of movement in that direction. But I 24

25 think it's a turning point rather than a new day.

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1 MR. TOPEL: Can I say something? Alan, you 2 are actually thinking like an IO economist because the 3 first thing on the list when people start thinking, 4 well, what's the likelihood that a collusive agreement 5 might succeed is that demand is inelastic at the б competitive price. And so you want to know something 7 about people's ability to substitute, you want to know 8 about the elasticity of demand. All you're saying is 9 I want some movements along a supply curve so I can figure out --10 11 MR. KRUEGER: Right. 12 MR. TOPEL: -- what the elasticity of supply 13 is. So is -- and the operative word that you just 14 mentioned is potential. 15 MR. KRUEGER: Right. 16 MR. TOPEL: That if demand was huge -- if 17 supply was hugely elastic, you'd say, look, attempted collusion here is attempted murder with a wet noodle, 18 and you'd just -- you just wouldn't go after it. 19 But I don't think that the steps you'd go through are any 20 different on the supply side than they are on the 21 22 demand side. And it has nothing to do with labor 23 either. It could be any input you want to be using. 24 MS. ROSE: How do you square that with, say, 25 the vitamin cartel or other commodity cartels?

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1 MR. TOPEL: I don't see the contradiction. 2 I'm saying --3 MS. ROSE: Well --4 MR. TOPEL: -- oh, you mean --5 MS. ROSE: -- where, I would have thought the demand was -- for a firm was pretty darn elastic, 6 7 but we saw collusion. I'm just --8 MR. TOPEL: No, but the question is, no, no, 9 no, it's whether the market price is inelastic at the competitive price, which means that -- which means 10 11 that there is a big return to restricting output and 12 raising price to everybody. And that's the first 13 thing on the list when you start thinking about these so-called plus factors. And it would be exactly the 14 15 same thing on the labor market side. 16 MR. KEHRIG: Just to weigh in on the --17 what type of research do we need for this, I think typically people either use work-level data or firm-18 level data. But I think it's actually important not 19 just to look at the wage level but also at worker 20 21 flows and who works for whom and how long and where do 22 you go. That means you have to work with matched data 23 on -- where workers and firms show up in the same data 24 set. And that's something that at least in the U.S. I 25 find quite limited.

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1 There are some other countries that have 2 much, much better access to match data where we know 3 much more about these worker flows and the incidence 4 of different shocks, the incidence of mergers and so 5 on, and what happens when wages go down here, what do And in the U.S., we don't know that so б workers do. 7 well because the worker side of the information typically comes from state unemployment records, and 8 9 some states are extremely, extremely reluctant to allow the federal agencies to use those data. And if 10 11 there's any way maybe to remedy this, then we wouldn't 12 know much more about that. Incidentally this happened 13 to be the states which are more red on the map, either 14 map.

MR. SANDFORD: Okay, I have a question for Nancy from the audience. I think it might be from an attorney.

18 MS. ROSE: Oh, no.

MR. SANDFORD: So you made a comment earlier that if you have a huge, you know, delta HHI, there's no point in pursuing a labor market harm. And the question is, when you have a winnable product market harm that is precisely when you should add a labor market claim, if applicable, to build up the case law rather than to wait for a weaker overall case.

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1 MS. ROSE: Absolutely. Could not agree 2 I don't want to say that's what happened in more. 3 Anthem-Cigna but certainly we included a buy-side claim in that challenge. I didn't -- I may be -- so 4 5 there is an advance in the case law motive and there's б a winning your current case and there is a balance. 7 And so if you think you've got a very strong labor 8 market harm and a strong product market case, maybe 9 that is a great one to bring both of them forward on. 10 If you think you've got a really strong 11 product market case and you're a little worried about 12 the labor market case, maybe you want to wait for a better opportunity is all, just given the vagaries of 13 14 trying to convince a judge to make that new case law. 15 Judges, I have discovered, seem not to like that, and 16 attorneys maybe are anticipating that and also kind of 17 averse to getting too far out ahead of the headlights. 18 But, yeah, I think that would be a great -look for those. I think that would be awesome. 19 MR. RAVAL: So I think we have time for one 20 21 last question. So this is kind of the money question. 22 So given limited enforcement resources, should the 23 agencies be shifting resources from mergers with a 24 product market overlap to mergers with labor market

25 overlap, and, roughly speaking, do you think those

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will require more or less resources than our normal
work?

3 MS. ROSE: I'll weigh in and let others. I think we need to be strategic -- we, the agencies -- I 4 5 can't escape this. I think the agencies need to be 6 strategic in thinking about where to look for this, 7 but I think there is enough concern about what's going 8 on, and we're not sure exactly how important the 9 anticompetitive practices are in the labor or the anticompetitive effects of mergers, say, are in the 10 11 labor market that we should be looking for it. We 12 should think about, is this an industry where the two 13 firms merging are hiring from a similar pool of, say, 14 specialized workers?

15 Maybe that's where we start, and add a few 16 questions to the screening to see, is this something 17 we should dig more into. And then if that -- it comes back with yes, it looks like there's a group that 18 could be harmed by this, we probably ought to think 19 about working that up. As I said, I don't want this 20 21 to be an open -- I don't think you should shift 22 entirely over to this setting because I am not 23 convinced that we yet have a reason to think there is 24 a big return to it, and it will be very costly as we 25 are developing the tools and particularly as you are

1 developing the case law.

But I don't think we want to have agencies
bury their heads in the sand and not worry about the
potential harm upstream.

5 MR. KRUEGER: Could I add? You know, I б think one place where DOJ and FTC could have a lot of 7 leverage in the no-poaching and the naked wage-fixing 8 is that one very strong case will send a very strong 9 signal to 6 million employers who, from what I can tell, think there are no penalties because so far 10 11 there have been no penalties for no-poaching 12 agreements. The penalty has been stop doing this 13 rather than -- as far as I know, rather than paying 14 fines.

15 And in the Detroit case, my understanding 16 was the human resource people thought this was kind of 17 the right practice to do. They -- the right practice in the sense they knew it was technically illegal, but 18 they thought that's kind of the normal business 19 practice. And I think a strong case where there are 20 21 actual penalties as opposed to just cease and desist 22 will send a signal and potentially have a significant effect, much more than enforcement actions, because it 23 24 will -- you don't have the resource -- I suspect given 25 the prevalence of anticompetitive practices you don't

1 have the enforcement resources to go after all of 2 them. But significant penalties could reduce the 3 practice. 4 MS. ROSE: I think that's what the assistant 5 attorney general is signaling. 6 MR. KRUEGER: He's signaling but there had 7 been no announcement yet. 8 MS. ROSE: No, no -- Alan, so I will say 9 from my two and a half years there, developing a criminal case, you're going to send somebody to jail, 10 11 takes some time. 12 MR. KRUEGER: Right. 13 MS. ROSE: So I at least think now, given they seem to be suggesting that they're working on 14 15 this, we should take them at face value and say -- and 16 think they're looking for a good case to bring, but --17 MR. KRUEGER: I certainly hope you're right, but he suggested it a year ago --18 19 MS. ROSE: I understand. There are different styles. My boss, when I was there, never 20 wanted to promise; he just wanted to deliver. I will 21 22 say when that guidance was released, there was a lot 23 of attention by human resource professionals to it. 24 So I suspect it has already had an effect. I think 25 your examples of the franchise no-poaches are

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1 different because those probably go through some type 2 of rule of reason analysis even if there is an 3 enforcement action against them, but just the naked 4 no-poach or wage-fixing I think people are on notice. 5 MR. TOPEL: I was going to make the same б I think it's important to draw a distinction point. 7 between no-poach agreements between separate firms and 8 separate organizations and policies within an 9 organization that are vertical restrictions. And the latter has to be judged by a rule of reason. 10 It's 11 hard -- it's hard to find good positive procompetitive 12 reasons for horizontal conduct between ostensibly 13 competing firms, so Section 1 comes into play. And I don't think you should make a 14 15 distinction between the product market and the labor 16 market. 17 MR. KRUEGER: But, Bob, those same contracts 18 say that we're not a joint employer. MR. TOPEL: Yes, I know. 19 Which strikes me as --20 MR. KRUEGER: 21 MR. TOPEL: But it's a joint brand name. 22 MR. KRUEGER: -- contradictory. 23 MR. TOPEL: It's a joint brand name, and I 24 disagree with you on whether it's contradictory. 25 MR. KRUEGER: And as far as knowledge about

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1	it, I mean, FTC has brought a case against physical	
2	therapists where the text messages are pretty clear	•
3	So, I mean, we don't know how much of this goes on,	
4	but there is evidence that some of it is going on.	
5	MR. SANDFORD: Okay, we are out of time,	
б	unfortunately, but this was a great panel, so please	9
7	join me in thanking them.	
8	(Applause.)	
9	(Panel 1 concluded.)	
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1 PANEL 2: LABOR MARKETS AND ANTITRUST POLICY 2 MR. MOORE: Good morning. We're going to go 3 ahead and start the second panel on Labor Markets and 4 Antitrust Policy, hopefully building on what we heard 5 during the first panel. My name is Derek Moore. I'm 6 an attorney advisor in the Office of Policy Planning, 7 and I will be moderating this very distinguished panel 8 that we have. 9 To my immediate right is Marty Gaynor, who is a professor of economics and public policy at 10 11 Carnegie Mellon University. To his right, we have 12 Renata Hesse, who is a partner at Sullivan & Cromwell. 13 And both Marty and Renata held senior positions at the FTC and DOJ, respectively, prior in their careers. 14 15 Jon Jacobson, to Renata's right, is a partner at Wilson Sonsini, in the New York office. 16 То 17 Jon's right is Eric Posner, who is a law professor at the University of Chicago School of Law and a counsel 18 at MoloLamken. And to Eric's right is Evan Starr, who 19 is an assistant professor of management and 20 21 organization at the Smith School of Business at the

22 University of Maryland. You can read more about each 23 of these panelists in the bio documents that we've 24 passed out, but without further ado, I will pass it on 25 to Marty.

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1 MR. GAYNOR: Well, first, just let me thank 2 Chairman Simons and all of the Commissioners for 3 putting on these hearings. I think they're really 4 tremendously beneficial to the agencies obviously, but 5 to the country as a whole and really a credit to both 6 the FTC and Antitrust Division for taking on a bunch 7 of really tough and challenging issues and hearing 8 from a lot of people with very diverse backgrounds and 9 viewpoints on this.

10 So I have just a few remarks about labor 11 markets and antitrust policies. And the first panel, 12 by the way, for those who were here, was absolutely 13 excellent. We just had a bunch of topnotch and very, 14 very knowledgeable people discussing these issues.

15 So one thing you heard is there's a lot of 16 concern about wages and wage growth and worker earnings in the U.S., particularly for low-wage 17 workers. And I think one thing that people also gave 18 over well is that the causes for this are not 19 particularly well understood. One possibility that 20 21 may have something to do -- and it might be important 22 -- is the possibility of growing monopsony power in 23 our economy.

24 There is some evidence of monopsony power in25 U.S. labor markets. I think aggregate studies of

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1 labor market concentration wages don't provide much 2 evidence on this, one way or another. And I want to 3 be clear about two things there. I think these 4 studies do make an important contribution because they 5 document what's happening with certain measures of 6 concentration and certain measures of wages. As far 7 as telling us exactly what's going on beyond that, as 8 the previous panel made clear, I don't think they're 9 at the point yet where they're telling us what we really want to know. But there still is an important 10 11 contribution.

12 The second point about this is as I think 13 Joe Farrell, when he was a BE Director in the past, was fond to say, absence of evidence is not evidence 14 15 of absence. Just because these studies don't 16 necessarily show that there's something going on 17 doesn't mean there's not. And I think actually there is quite a bit of other evidence that leads me to 18 think that there are some nontrivial issues with 19 20 monopsony power.

There's evidence from fast food workers that Dave Card and Alan Krueger did a number of years ago, nurses, up to the recent study that was just discussed, teachers, et cetera. Lots of recent evidence of the use of no-poach agreements, in some

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1 industries wage-fixing, noncompetes.

In addition, we've heard about declining labor market dynamism and unionization, and while those things are not necessarily declines in competition, per se, or antitrust, they can magnify anticompetitive effects or have impacts on the workings of these markets in ways that interact with competition.

9 So as I said, we don't have a lot of evidence at this point, to my mind, on whether 10 11 monopsony power is growing. And in particular we 12 don't have evidence on whether monopsony power is an 13 antitrust problem in the aggregate. Even if it's pervasive, we don't know what led to it, and we don't 14 15 know whether if firms do possess monopsony powers 16 acquired by these firms, say, succeeding in some 17 natural way, which is perfectly legal, or via mergers 18 that harm competition in the labor market or practices that harm competition in that market. 19

The recent evidence from the Ellie Prager and Matt Schmidt study, I think, does point us a bit in that direction, that certain kinds of mergers can harm workers in certain labor markets. And it's important to make clear that antitrust is not the only policy lever to address issues in labor markets.

1 One of the things the antitrust agencies in 2 my opinion should consider doing, and resource 3 constraints have to be taken into account, but 4 nonetheless, I think there are some things to be 5 thinking about. So one set of things that's within 6 the power of the agency are retrospectives on mergers, 7 how might that provide information. Well, did sell-8 side concerns address the buy side as well? To what 9 extent did they not?

10 There are some cases where there have been 11 sell-side concerns, but -- I'm sorry, buy-side 12 concerns, but there were not actually sell-side 13 concerns. Are there changes over time? Does labor 14 market monopsony via merger appear to be more of an 15 issue now than it has been in the past? And has 16 antitrust been underenforced against mergers based on 17 labor market issues? Right now, I would say we actually just don't know about these things. And some 18 19 efforts to inform ourselves better about this, I think, are sort of resources well used. 20

21 Another way to do this would be to do things 22 prospectively. As mergers are reviewed, take a set of 23 those mergers and add a labor market analysis to those 24 mergers to try and get answers to these questions 25 going forward. What proportion of these things raise

1 labor market issues? That proportion of these things 2 raise labor market issues that would not have been 3 addressed by product market issues? Labor market studies, I think that rather 4 5 than trying to do more aggregate-level work, I think 6 we do in-depth, careful study at the level of 7 individual markets analogous to industry studies on the sell side, and there are a whole bunch of issues 8 9 that could be addressed this way. I'm not going to read everything off the slide. The slides will be 10 posted online at some point. 11

12 What about enforcement? So here, I think, 13 one key thing is that monopsony by definition causes 14 harm to competition. And my view is that's the 15 antitrust standard, harm to competition. Scott 16 Hemphill and Nancy Rose and some others have called this a trading partner, welfare standard. 17 I think this is one of the many consumer welfare standards 18 going around. There seemed to be at least as many 19 consumer welfare standards. I think actually there 20 21 are more welfare standards than there are antitrust 22 people, but I think this is just very straightforward 23 and common sense. There's harm to competition in this market; it's an antitrust issue. 24

25 What are some low-hanging fruit or no-

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1 brainers? Collusion, wage-fixing. So Alan Krueger 2 referred to this, Your Therapy Source, where there was 3 an invitation to collude via text message. This is 4 the modern era. No-poaching agreements across firms. 5 Agencies are already taking actions in these areas, 6 but these are certainly areas where if there are 7 violations, they are problematic. They can be 8 pursued.

9 Some things that I think are not as 10 straightforward, but still not -- should be considered 11 are nonbeneficial noncompetes. I think there's pretty 12 much agreement that for low-wage workers, noncompetes 13 have virtually no efficiency benefits, if any at all. 14 But, of course, in matters like this, one does have to 15 show harm, so thinking about that.

16 With regard to mergers, it might be 17 productive to consider revisiting the Horizontal Merger Guidelines with regard to monopsony power, 18 thinking about analysis of labor market impacts and 19 sort of what that would constitute. Considering 20 whether there may be some shortcuts or quicker 21 22 analyses that would allow one to make conclusions 23 about whether something should go forward just as 24 there are some on the sell side, and thinking about 25 that.

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1 So and last but not least, concerning 2 whether rulemaking authority, which the FTC does have, 3 might be productively applied in this area. So there are a bunch of things to consider, and I think the FTC 4 5 and the Antitrust Division can't and shouldn't try to б do everything, but I think they should be considering 7 what sorts of things they could do that have a high benefit relative to the cost. And I think there are 8 9 some things in here that would meet that criteria.

10 Let me briefly say that antitrust is part of 11 what I'll call a constellation of policy actors and 12 policies. That makes it sound like everything fits 13 neatly together, which in some sense it doesn't, but the antitrust enforcement agencies play a very -- a 14 15 very important role. Federal agencies play an 16 important role. Various parts of other parts of the 17 Federal Government, state governments play a very important role. 18

And the key thing here is that communication and coordination are absolutely critical, and this is true for -- pick any kind of area in the economy. If it's a product side, say transportation, communications, healthcare, there are always other actors that have big impacts on what happens in markets and how well competition functions. And it's

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1 important for the agencies to communicate and 2 coordinate with those, and I do want to be clear that 3 the agencies do a lot of that already. 4 But the other thing again is there's no one 5 actor here, and one should not be considering actions, policies by one actor, in isolation, but be б 7 considering how these things fit together. 8 So very briefly in summary, in my view there 9 are undoubtedly issues with monopsony in labor markets in our economy. We don't know how extensive these are 10 11 and whether they've been growing, getting worse. 12 That's really not clear. I think that what we need is 13 more evidence. And I think there are some structured ways that one could -- one could pursue that. 14 Some of 15 that can be done by the agencies, whether internally 16 or by commissioning outsiders to do the work. Some of 17 that can get done simply by outsiders -- academics or 18 other researchers. 19 As far as enforcement, there are some things that are obviously bad and the agencies can go after 20

21 them. And they've signaled that they -- indeed they 22 are going to do that. And then I think trying to 23 examine and learn about things where it's not quite so 24 clear is an investment well worth making.

And, last, I'll just conclude by reiterating

1 that policy towards labor markets more broadly, 2 antitrust is a piece of the puzzle. In the past, it 3 has not been a terribly prominent piece of the puzzle, and it may be that it should assume a larger role, but 4 it should not be considered in isolation. It does 5 need to be considered in concert with everything else 6 7 that goes on and everything else that determines 8 competition and the function of labor markets. Thank 9 you very much. 10 (Applause.) MR. MOORE: Thanks, Marty.

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12 All right. Jon?

13 MR. JACOBSON: And I, too, want to thank Joe and Bilal and Derek and the rest of the Commission for 14 having these sessions. Really informative and 15 16 important, and thank you for this.

17 So I'm going to start with just sort of the textbook model of monopsony. It requires an upward-18 sloping supply curve because only with the upward-19 sloping supply curve will a reduction of output 20 21 generate lower prices. So the monopsonist looks at 22 its marginal input curve, which the closer it is to a 23 full monopsony will kind of merge with the supply 24 curve, and profits by reducing its purchases to reduce This is the standard model. 25 its cost.

1 In nonlabor markets, one of the things we 2 observe is that in markets with significant economies 3 of scale, the supply curve does not necessarily slope upwards. Certainly at the relevant output levels that 4 5 we're looking at in cases, often you see a flat supply curve. Theoretically, you can see a downward-sloping 6 7 supply if scale economies are substantial enough. 8 What that means is that in these markets, traditional textbook monopsony does not work because reducing 9 prices -- reducing purchases does not have an effect 10 11 on price.

12 Now, what's happening in labor? Labor is 13 traditionally considered the textbook example of the 14 upward-sloping supply curve. For years, most 15 introductory economics textbooks have taught monopsony 16 by referring to the one-company town and other labor 17 market considerations. But the data that we have seen over the last couple years suggests strongly that 18 wages are down but the economy is doing well. 19

20 So looking at it on a total macro basis, 21 wages are down, but total industry output, GNP, if 22 you will, is not down. It's up and it's been up 23 significantly. So how do we square increased output 24 with reduced wages in a competition context? And I 25 don't have an answer to that because I think it's a

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difficult problem. There are a number of analyses, and I'm looking at Ioana, and hers is probably the most prominent, that associate increased concentration in labor markets with lower wages.

5 I am very skeptical. The data come from a 6 single source, CareerBuilders.com, on wages. And I 7 don't know that that captures a lot of the superstar 8 wage firms that recruit without using that website. 9 And one of the things that we observe just anecdotally is that the industries that are being attacked as 10 11 leading the march to increased concentration, these 12 are largely the FANG companies. Those are the 13 companies that pay the highest wages.

14 One of the reasons you saw no-poach 15 agreements in high tech is that the wages are, in 16 fact, so high, not so low. You don't need to have a 17 no-poach agreement if wages are low. You tend to be more indifferent unless it's a really unique talent, 18 which actually explains some of the cases that were 19 brought. And so we have -- we have Fox is suing 20 21 Netflix for poaching employees. Amazon increased its 22 minimum wage to \$15 an hour.

All of this suggests to us that these studies are very preliminary, and it's hard to draw really robust conclusions from any of them. There is

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just too much that we don't know, and we need to do a 1 2 lot more study before making significant policy 3 conclusions. 4 Now, where labor monopsony is a problem, 5 it's not clear that the consumer welfare standard is the best way to address it. Consumer welfare -- and 6 7 we're see many varieties of it, but it traditionally 8 comes down to lower prices for consumers. Now, if a 9 labor monopsonist reduces output in terms of the purchases of labor, that may, in fact, reduce output 10 11 and lead to higher prices at the consumer end. In 12 fact, that's the standard textbook model. 13 But life does not always conform to models, and most firms with significant bargaining power over 14 15 laborers will tend to reduce the amounts that they pay 16 or more realistically not give raises but not reduce

18 consistent with the national trend towards greater 19 output and comparatively lower wages.

the output that they produced. And that seems

20 One of the things that folks have commented 21 on is that labor's share of GNP has declined over 22 years. To me, that is not a particularly important 23 data point because we are in what the Samuelson 24 economics books that I used as a kid and many of you 25 used -- none of you is as old as me -- but many of you

1 studied Samuelson's textbook. And he talked about a 2 post-industrial age where technology was more 3 important to productivity than labor. 4 And we are seeing that. We are in the 5 beginnings of the post-industrial age. And one of the б consequences of a post-industrial age is that labor's 7 share of GNP is going to decline. That doesn't 8 necessarily associate it with increased bargaining 9 power for employers or traditional monopsony power. It's just an issue. 10

11 So getting back to consumer welfare, if in a 12 lot of these cases the result of paying less in terms of wages is going to be to reduce the firm's costs and 13 14 therefore reduce the prices that it's charged, I'm not 15 saying this is the normal case or even the standard 16 case, but it happens in enough cases that you have to 17 question whether to apply consumer welfare as the appropriate standard. 18

And the standard that I think captures the benefits of the consumer welfare standard without at least that particular potential flaw is an output standard. And let's look, is this practice decreasing market output? Is it neutral? Is it increasing market output? And I think you can apply that to labor markets in the same way that you can apply to

1 traditional industrial markets.

And if we do that, I think we generate better outcomes in a larger percentage of cases than with the "low prices for consumers is all that matters" standard. So I would urge the Commission to consider output as a -- if not a substitute at least a relevant consideration in terms of determining whether a practice is unlawful or not.

9 Now, what is the consequence of this? What 10 should the Commission do? That's why we're here. I 11 think clearly the no-poach cases are ones that are 12 valid. Other activities involving collusion should 13 also be policed. I also agree that it should have 14 more prominent consideration in merger reviews. I'm not sure I would add a labor specification to the 15 16 second request. That's going to increase costs.

17 But I think the staff lawyers at the Commission are savvy enough to understand or receive 18 complaints on whether a merger may have a negative 19 effect in a labor market. And when that's the case, 20 that should be pursued. In most cases, and we heard 21 22 about this from the first panel, taking care of the 23 merger from the sell side is also going to address the 24 labor issues, but that's not always true, and I think 25 that if the staff is simply more sensitive to these

1 issues, that that will be a plus.

2 But at the end of the day, at the end of the 3 day, labor wages is really not solvable through 4 competition solutions. There need to be additional 5 solutions. Now, one that the FTC could consider --6 and this would surely be challenged in court, but I 7 believe it would be upheld -- is simply a rule banning 8 noncompetes or no-poach agreements for low-wage professions. And I think the FTC could do that. 9 10 There would be terrific procompetition 11 effects from that. And after the five-year court 12 battle is resolved and the rule is upheld, I think 13 there will be great effects for the economy. 14 The Commission could also consider rules 15 having greater wage transparency, maybe something 16 together with the Labor Department. But at the end of 17 the day, low wages is an important social problem. 18 Whether it's an antitrust problem, there's significant reason for doubt, but there are tools that the FTC has 19 and that other agencies of government have to address 20 21 the problem. Thanks. 22 (Applause.) 23 MR. MOORE: Thank you, Jon. 24 Eric, you're up. 25 MR. POSNER: Thanks very much. Okay, so

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six, seven minutes, is that the --

2 MR. MOORE: Yes.

3 MR. POSNER: So I guess to draw a contrast 4 with the previous speakers, I'm going to urge the FTC 5 not to be cautious but to recklessly forge ahead to deal with this problem, which I think is much more 6 7 significant than many people are suggesting. I'm 8 going to make a few arguments, but the theme of my argument is the contrast between labor markets and 9 product markets and the obvious contrast between the 10 11 amount of attention that product markets have gotten 12 by the FTC and the DOJ and everybody else and how little attention labor markets have gotten 13 14 historically as well as recently.

I also want to put aside two red herrings that we've heard. One is that wage suppression or wage stagnation is not simply the result of concentration or other anticompetitive actions. I agree with that. But at least some of it clearly is the result of anticompetitive actions, and that's why the FTC has a role here.

The other related point is that antitrust law can't do everything, and I agree with that as well, that a lot of the wage suppression or income stagnation has resulted from other factors, but

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1 nonetheless, there's a role for antitrust law to deal 2 with the increment that is attributable to 3 anticompetitive behavior. 4 Now, I don't want to go over the evidence 5 again. That was discussed in the first panel. So I 6 will just put it aside. And I actually want to 7 provide some theoretical considerations and some legal 8 considerations for people to think about. 9 So the first point is simply that firms have just as much incentive to suppress wages as they do to 10 raise prices. It has the same effect. Both actions 11 12 generate profits. And if they can raise prices 13 through anticompetitive behavior and they can cut wages through anticompetitive behavior, they're, you 14 15 know, roughly going to be indifferent between doing 16 either one of those. 17 But the fact is that historically there's been much more enforcement on the product market side, 18 as I said earlier. And so any rational profit-19 maximizing firm is going to look at possible 20 21 anticompetitive actions on the product market and be a 22 little bit worried that the FTC or private plaintiffs or the DOJ will go after it. 23 On the other hand, if they look at the labor 24

market side and they see ways that they can reduce

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1 labor casts through anticompetitive action, well, 2 until recently, they wouldn't have worried at all 3 about the Government getting involved. The same point 4 can be made about mergers, which was discussed 5 earlier. If two firms are merging, they really do 6 have to pay attention to the product market side. 7 They know the Justice Department and the FTC

are going to review the merger to see whether it will raise prices for goods. They also know that the Justice Department and the FTC will not review the merger to see if it has any effect on wages, so they don't have to worry about that. And you'd think, if they're rational and they want to make money, that that's where they would focus their efforts.

15 There's a somewhat subtler point, which is 16 that for reasons that were discussed in the previous 17 panel, labor markets can be very thin. A big source of labor market monopsony, as I gather labor 18 economists use the term, is the result of search costs 19 and job differentiation. You might think of matching 20 21 problems as a source of thinness in labor markets as 22 well. And these problems are less significant in product markets. 23

And I would think, then, that we would be more worried, given a certain HHI for a labor market

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and a product market, with the labor market, right?
So for a given HHI, you might think that the effect on
wages will be much more significant than the effect on
prices because of these problems that seem to be
characteristic of labor markets.

6 Another point to keep in mind is that 7 although I realize the FTC isn't really, you know, a welfare-maximizing institution, that it has a narrower 8 9 mission, it seems very likely that labor market monopsony causes more harm than product market 10 11 monopoly because workers tend to be -- you know, the 12 workers who may tend to be the victims of monopsonist 13 conduct will see their wages go down, whereas when prices go up, these are goods that may very well be 14 15 bought by all kinds of people, wealthy and poor. So I 16 suspect you'll see a greater impact on workers from 17 anticompetitive behavior in the labor market than for consumers generally in terms of welfare. 18

19 The last thing I want to talk about, Okav. some legal considerations, which I don't think have 20 21 been brought up yet and I think are interesting. So we know from people's work, including Evan and Alan, 22 23 that there's a lot more anticompetitive behavior going 24 on than people believed. The question is, why isn't 25 there more litigation?

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1 Well, and if you read the cases, the first 2 thing that you can just type in, "labor market 3 monopsony," or words to that effect in a database of cases, and you'll get a small number of hits, whereas 4 5 if you do searches for any type of product market б monopoly case, you get millions. Okay, so why that 7 difference? Why if there is anticompetitive behavior 8 in labor markets and that it's rational for employers 9 to do it, why are there so few cases?

Now, of course, one possibility suggested in 10 11 the previous panel is, well, maybe there isn't that 12 much labor market anticompetitive behavior so there 13 aren't cases for that reason, and that's possible. But there are barriers -- there are legal barriers on 14 the product market side that are not as severe --15 16 sorry. There are legal barriers on the labor market 17 side that are not as severe as the legal barriers on the product market side. 18

So, for example, labor class actions are a 19 lot harder than consumer class actions. 20 Workers are 21 much more diverse. That means that it's harder to put 22 together a class that reflects a kind of commonality among the victims than in the case of product markets 23 24 where the products are often just commodities and the 25 effects on people from a higher price are much easier

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1 to calculate.

2 Labor class actions are also more difficult 3 because wage data is more frequently secret, harder to 4 get than in the case of product markets, which is 5 probably why you see less economic research until 6 recently in labor markets that show anticompetitive 7 behavior. Product markets also tend to be national, whereas labor markets are almost always local. Okay, 8 9 so if you're a plaintiff's lawyer and you need to, you know, make enough money to finance the costs and the 10 risks of litigation, it's going to be much more 11 12 attractive to use a national market than a small 13 regional market.

14 And then the almost final point is that in 15 the product market case, there are often natural 16 corporate plaintiffs, and I believe they're the most 17 frequent types of plaintiffs. So often the victim of a monopolist is another big company that can afford to 18 bring a lawsuit. Consumers might be victims as well, 19 but it's much easier for just a private company to 20 21 bring a lawsuit.

But there are no private companies that are natural victims of labor market monopsony. The victims are just ordinary people who often don't even know that they're victims, who have no idea. And so

1 they're not going to bring a lawsuit; they're not 2 going to consult a lawyer. 3 And then my final point is that because 4 there are so few labor market cases, there's very 5 little demand for experts, and there's very little demand for academic work that looks into them. 6 And 7 there's a, you know, circularity here. As a result of 8 that, less information comes out and people never 9 learn that this problem is as pervasive as it appears to be. 10 11 By contrast, if you look at what the experts 12 are doing and what most of the economic research is 13 about, it's all on the product market side, and that has this reinforcing quality, which probably accounts 14 15 for why there's so much more product market litigation 16 than labor market litigation. And with that, I will 17 stop. Thank you. 18 (Applause.) 19 MR. MOORE: Thank you, Eric. Renata? 20 21 MS. HESSE: So I thought I'd take us --22 well, actually, first, thank you. Thanks for having 23 me, Bilal and Chairman Simons and Derek, thanks for 24 organizing us. 25 I thought I'd start first with a little bit

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1 of history, and I promise I won't go on long, which is 2 to say how did we at DOJ and the FTC come to thinking about these issues and then issuing the guidance that 3 we issued at the end of 2016, which I think has been, 4 5 you know, picked up by the new administration and at least carried forward in the sense that the Assistant 6 7 Attorney General at the Antitrust Division has said 8 that he is going to, in fact, investigate and 9 prosecute some of this conduct criminally.

10 So, you know, the natural starting point for 11 people in positions of leadership in the antitrust 12 agencies is not one of humility and self-reflection. It tends to be more defensive. And so I confess that 13 14 when Alan's paper and some other papers came out 15 citing that the antitrust agencies had missed the ball 16 in this area, that the natural reaction internally was 17 to say, well, of course we haven't missed the ball.

18 The next thing was to do a little bit of a step back and do -- be a little more humble and do a 19 little bit more self-reflection and ask the question 20 21 whether there were things that we were, in fact, 22 missing. We knew that we had brought some cases, we 23 knew that we saw these issues arise in certain highly specialized markets, I would say -- nurses, tech 24 markets -- but we really didn't know if we had missed 25

1 a bunch of cases somewhere.

So one of the things that we thought we would do was work to create some guidance to put out and just to raise the profile of these issues, because one way that you learn about cases is if you hear from people who have been the subject of anticompetitive conduct or otherwise they come to you with their cases.

9 And we set up a hotline and all sorts of ways for people to get into contact with us as a way 10 of trying to check to see whether there was a lot that 11 12 we were missing. I will say that we did see an uptick 13 in behavior that seemed to be translating from more 14 classic civil conduct to things that looked more 15 criminal. So behavior that looked more like wage 16 fixing, for example.

And that was a big component in the thinking that we had about saying that we were going to start these investigations going forward criminally rather than civilly, because the conduct appeared to be less rule of reason in nature and more just straight up cartel-like.

23 So where does that take us? So I think the 24 guidance itself is, I think, quite clear, and I think 25 it has been helpful in terms of raising the profile of

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1 these issues. I know that in a number of meetings 2 with clients that I've had, these are issues that 3 people are talking about and asking lots of questions. We do a fair amount of counseling around these issues 4 5 now, whereas I think before they did not get a б particularly high profile. 7 But I think there is still a lot of work to be done here. I tend to agree with -- I think I 8 9 always feel like I'm charting the middle course in things. I tend to agree with Jon and Marty that I 10 11 don't think antitrust -- and even Eric said this, too

12 -- antitrust is not the be-all and end-all in this 13 area. There are a lot of issues that this country 14 faces in terms of income inequality and wage 15 stagnation that should be a very high priority for our 16 legislators and otherwise to try to handle.

17 I think antitrust is one piece of that, but I certainly don't think it's the biggest piece, and I 18 encourage those of us -- those of you who are making 19 laws and thinking about legislation to really focus on 20 21 other ways that we could address some of these issues. 22 There's no question that the power of labor, vis-a-vis 23 employers, has changed in the United States. And I 24 think that's had an impact on wages.

The other thing, though, that I think has --

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1 was sort of -- has gotten a little bit lost is that I 2 don't actually think the agencies have ignored this 3 issue. It's just that it's been looked at as a pro in 4 mergers and not as a negative. So one thing that I 5 think as people think about lower wages, fewer jobs, 6 all of these things, that typically that has been 7 characterized as an efficiency. And the agencies have 8 analyzed it as an efficiency and they've looked at it 9 as a positive that can come from combinations because it reduces the costs that the companies have and it 10 11 therefore makes them more efficient and makes lower 12 prices available to consumers.

And I think we will need to really rethink how we think about efficiencies if we are going to say that that kind of cost saving is now a harm and not a good. So I will leave it there. We have lots of things to talk about.

18 (Applause.)

MR. MOORE: Thank you, Renata. And now onto Evan.

21 MR. STARR: All right. Thanks, everyone, 22 for having me. And rather than taking a big-picture 23 approach in the discussion of labor market 24 competition, I'd rather take you guys on a deep dive 25 into noncompete agreements which explicitly prohibit

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workers from working at competitors. And so this is an emerging area of research, and there's a lot to say, but I want to give you guys kind of the broad overview so you have an understanding of what we're seeing.

б If you've never had the joy of signing one 7 of these agreements, let me just read one for you. 8 This is from an Amazon packer in 2015 that the 9 contract says, "During employment and for 18 months after the separation date, the employee will not 10 11 engage in or support the development, manufacture, 12 marketing, or sale of any product or service that 13 competes or is intended to compete with any product or service sold, offered, or otherwise provided by Amazon 14 15 that the employee worked on or supported." Okay.

Now, I mean, although noncompetes have been around since the 1400s, the public interest in them has really only increased after the Jimmy Johns case where minimum wage sandwich-makers were prohibited from working within three miles of any Jimmy Johns establishment, which basically nips the whole city of Chicago.

And after that, policymakers began to question why firms were using these things, how they were being used. And their interest was pretty clear

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1 that firms could use them unscrupulously with low-wage 2 workers even simply to restrict turnover and reduce 3 wages, and just like firms did in the kind of Silicon 4 Valley no-poaching case. But unlike those no-poaching 5 agreements which are per se illegal and invisible to 6 the worker, noncompete agreements are generally not 7 per se illegal because there's a presumption that 8 workers voluntarily agree to them and that there's a 9 clear efficiency motive, which is that firms have an incentive to invest in information and share that 10 11 information with workers that could make them more 12 productive.

13 If the firm could not use the noncompete, 14 then competitors could hire that worker away and experience the benefits of the information they 15 16 provided to him. So because of the sufficiency 17 motive, the result is that most states enforce 18 noncompetes according to a rule of reason except for a 19 few states like California and North Dakota and Oklahoma, where they're banned. 20

21 So how should you think about noncompetes? 22 Well, I think you should think about them in the same 23 way that you would think about labor market 24 competition, and what I mean is this. Consider the 25 following example of a worker who is -- just accepted

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1 a job offer, and he didn't know about any of these 2 noncompetes, and he walks into the office on the first 3 day, and the HR quy is running through the paperwork, 4 and they ask him to sign his employment contract. 5 Maybe it's a document that he has to flip б through, and maybe it's on a computer screen where 7 he's got to click through and then electronically 8 sign. And he stumbles upon this contract like the 9 Amazon worker that says you can't work for two years in your chosen industry. 10 11 And so if you think labor markets are 12 competitive, if you think that the worker can quickly and easily get another job offer, if you think that he 13 14 can go and credibly threaten to guit and earn the same 15 elsewhere, then the worker is only going to agree to 16 that provision if he's better off, right, if he gets

17 some of compensated differential.

18 But if you think that the labor market is not competitive, then the worker might just sign that 19 contract because maybe he doesn't have another offer 20 21 and he's got to put food on the table tomorrow, okay? 22 And so the point that I really am trying to 23 crystallize here is that noncompetes are a source of 24 monopsony power and that they increase the expected 25 moving cost to competitors, but the price that firms

1 pay for that monopsony power depends upon the

2 competitiveness of the labor market.

And, in particular, if labor markets are perfectly competitive, workers are going to get that compensating differential where the future monopsony power is transferred back to them. But if the labor market is not perfectly competitive, then firms can retain that monopsony power.

9 Okay, so with this backdrop, I want to summarize some of the research that we're seeing, and 10 11 I want to emphasize that this research is really still 12 in its infancy in large part because the use of 13 noncompetes is not -- the data on use of noncompetes is not really available. In 2014, along with J.J. 14 15 Prescott and Norman Bishara, I wrote and implemented 16 kind of the largest survey of noncompetes across the 17 U.S. labor force. And until then, we only really had 18 studies of CEOs in a select few occupations like physicians and engineers. And there's a recent study 19 of hairstylists as well. 20

21 So here are just a few takeaways from this 22 kind of emerging stream of research. The first one is 23 that noncompetes are pretty pervasive. Let me just 24 give you some of the numbers. Recent studies suggest 25 that nearly one in every five U.S. labor force

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1 participants is bound by a noncompete and that roughly 2 40 percent have signed one at some point in their 3 career. Noncompetes are more prevalent among high-4 skilled workers -- 80 percent of CEOs, 46 percent of 5 physicians, 40 percent of engineers -- are bound by 6 But they're also found in low-wage jobs as the them. 7 recent publicity suggests. Twenty-one percent of 8 those earning less than the median wage signed one at 9 some point, as Alan and Eric found, and 30 percent of hairstylists are bound. 10

But noncompetes are also found in states that don't even enforce them like California. Nineteen percent of Californians are bound by noncompete agreements, including 62 percent of CEOs in California. And so sometimes the California model is trumpeted, but we also find that noncompetes are being used there as well.

18 And to give you an example, just to show you 19 that I'm not crazy, this is a noncompete from a Silicon Valley-based nonprofit that hires volunteer 20 21 coaches to take grade-school girls on runs after 22 school. And this is the noncompete. It says, "As a coach and volunteer with Girls on the Run of Silicon 23 24 Valley, I may not create or help develop a program 25 that has similar goals and structure to that of Girls

1 on the Run International within a two-year period of 2 my involvement of Girls on the Run." Okay, so this is 3 a volunteer coach in a nonprofit in Silicon Valley. 4 Okay, so second, when workers are asked to 5 sign one of these provisions, 82 percent of them 6 indicate that they simply read it and sign it. And 7 some actually admit that they don't even read it. 8 Only 10 percent of workers attempt to negotiate over 9 these types of provisions when they're asked to sign And one-third of them actually come after the 10 them. 11 worker has accepted the job offer already. More 12 importantly, 86 percent of workers indicate that they 13 weren't promised or they don't perceive that they were promised anything in exchange for agreeing to these 14 15 types of provisions.

16 Among the existing studies, two of them do 17 find that the use of noncompetes is associated with higher wages and longer tenure, so there is some 18 evidence of these compensating differentials. 19 Although, one of the studies that I wrote with J.J. 20 21 and Norm suggests that the timing issue is really 22 important, that if you surprise workers with these 23 provisions, then workers don't see any of these 24 benefits. They stay longer in their jobs, about a 25 year longer, and they're less satisfied.

1 Most of this literature doesn't involve data 2 on the actual use of noncompetes. Instead, it 3 exploits differences in state policies. And there's 4 significant heterogeneity across the U.S. In some 5 states, like Florida, noncompetes can be enforced even 6 if you're fired from your job. And if you are in 7 California, of course, they wouldn't be enforceable if you got to court. 8

9 So what this literature generally finds is that the vigorous enforceability of noncompetes is 10 11 associated with slower moving, less dynamic labor 12 markets with reduced wages. And just to cite one 13 study that I coauthored recently, we found that -- we followed workers for eight years, and we found that 14 just starting your career in a state with average 15 16 enforceability, after eight years, you experience 5 17 percent lower cumulative earnings and you had 8 percent fewer jobs relative to an equivalent worker in 18 a nonenforcement state. And, so that's kind of the 19 state of the evidence. 20

I have two more things I want to say and then we'll move on. So one -- another study that I recently wrote looks at -- if you just look at labor markets where the use of noncompetes is high and the enforceability is high, what do those labor markets

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1 look like? And what we find is that those labor 2 markets are also slower moving, including those not 3 even bound by these kinds of provisions. 4 In fact, there appear to be spillovers that 5 reduce the rate of job offers and the mobility and the б wages of those who are not even bound by them but 7 happen to be in a labor market where they're used 8 prominently and enforced regularly. 9 Okay. And the last thing I want to say is that noncompetes chill employee mobility -- appear to 10 11 chill employee mobility, even when they're totally 12 unenforceable. In one study, we found that in states 13 where noncompetes are not enforceable, 40 percent of workers who turned down job offers from competitors 14 15 said their noncompete was a key factor in that choice. 16 And this research, it goes on to say that it's 17 workers' beliefs about -- beliefs about whether the firm is going to go after them or whether the firm has 18 reminded them of their obligations that causes them to 19 turn down these job offers, not actual enforceability. 20 21 And when you ask workers what do you know 22 about these laws, you may or may not be surprised to 23 know that workers don't know very much. In fact, they 24 -- even in California, workers don't really know that

25 noncompetes are not enforceable. Of course, there

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1 could be differences in a few sectors.

Okay, so to summarize, you know, even though sometimes the evidence points to compensating wage differentials here, overall the key theme in my opinion is that the use of these provisions and the enforceability of these provisions tends to reduce the dynamism of labor markets and reduce the wages that the workers receive.

9 And I just want to end on two notes. First, 10 I'd just like to note that noncompetes also belong in 11 a conversation about final product markets because 12 they're also constraints to entrepreneurship, and they 13 prevent workers not only from moving to a competitor 14 but also starting a competitor.

15 And the second is that noncompetes are just 16 one constraint within a whole bundle of other 17 provisions, including nonsolicitation agreements, nonpoaching agreements, arbitration agreements, 18 intellectual property assignment agreements, class 19 action waivers, nondisclosure agreements. And I think 20 21 what's important to recognize here is that noncompetes 22 are very blunt instruments because they literally tell 23 workers you cannot go work in this industry. 24 And it's possible that that protects

24 And it's possible that that protects25 legitimate business interests, but once you account

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1	for all these other less restrictive provisions, it's
2	unclear what legitimate business interests actually
3	remain. And so it could be that noncompetes only
4	serve monopsonistic ends once you account for all
5	those other complementary constraints. And we don't
б	know much about those. So I'll end there.
7	(Applause.)
8	MR. MOORE: Thank you, Evan. We are now
9	moving on to the Q&A portion of our panel. And I'd
10	like to remind everybody that staff from the FTC is
11	going up and down the aisles passing out notecards.
12	If you have a question you'd like to ask, please write
13	it down on a notecard and it will be passed up to me.
14	So the first question I'd like to ask
15	relates to welfare standards. Jon mentioned that
16	there may be more welfare standards than there are
17	antitrust commentators, which might be true. But I'd
18	like to talk a little bit about some of the problems
19	that Jon identified with applying the consumer welfare
20	standard to monopsony issues in labor markets.
21	And specifically I'll point this to Renata
22	and Eric. Do you think that the consumer welfare
23	standard as defined by the courts is flexible enough
24	to address concerns about monopsony power in labor
25	markets, or does there need to be some sort of sea

1 change in how the courts interpret the consumer

2 welfare standard?

3 MS. HESSE: All right, I'll start by giving 4 the not surprising response that I actually think the consumer welfare standard is, in fact, flexible enough 5 to address these issues. I mean, I read what Jon 6 7 said, and I was not sure why, if you're thinking about 8 an anticompetitive conduct that harms labor or 9 laborers, why you necessarily need to think very much about what the impact of that would be on the end 10 11 price of the product that the consumer buys. I'm not 12 -- it's not clear to me that you need to go all the way downstream in order to think about where the harm 13 14 is.

15 This is a debate that has happened many, 16 many times between lawyers and economists, I will say, 17 but it strikes me that the harm is being felt at the 18 employee's level and that the consumer welfare 19 standard is perfectly adept at thinking about that and 20 addressing it.

21 MR. POSNER: I agree. I've read as many 22 labor monopsony cases that I can, and I didn't find a 23 single one where a court even brought up the consumer 24 welfare standard or thought that it might block an 25 otherwise plausible claim. In the merger context, I

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1 mean, you know, if the worker -- the relevant issue 2 here will be when you look at a merger, the effects on 3 everybody, consumers and workers. If the workers' 4 welfare goes down as a result of the merger, I think, 5 you know, anybody can understand that that's 6 anticompetitive under the Sherman Act, and that's 7 relative -- that's relevant, even though they're called workers rather than consumers. 8 9 There could be other aspects of the merger that are positive, but as Nancy mentioned in the 10 11 earlier panel, a merger that has monopsonist effects 12 will tend to raise prices, not lower prices for consumers, so that's not an issue for the consumer 13 14 welfare standard. 15 MR. JACOBSON: Can I get ten seconds of 16 response here? 17 MR. MOORE: Sure. 18 MR. JACOBSON: So the problem is the one that you identified earlier, which is that people 19 have been using lower wages and firing people as 20 21 efficiencies because, they argue, lower prices to 22 consumers will result. So, you know, I do think there's a tension here. Yes, strict textbook 23 24 monopsony will lower product output and will therefore 25 raise price, but the world is not a perfect monopsony

25

1 model, and we do see a lot of bargaining contexts
2 where wages are lower or fewer people are hired. And
3 under the traditional consumer welfare standard,
4 that's a plus, not a minus. And that's why I think
5 it's not a perfect standard.

MS. HESSE: Yeah, I mean, I guess to me, the 6 7 issue is whether you're thinking about it in the -- in 8 isolation or whether you're thinking about it as part 9 of a transaction where somebody's saying we're going to identify this as an efficiency and we want you, the 10 Government, to give us credit for this efficiency and 11 12 balance it against the harms that may or may not occur 13 on the product market side.

I think if you think about these issues in isolation as a monopsonistic conduct that harms labor, then the consumer welfare standard does its job.

17 MR. POSNER: Yeah, and I just want to add, I mean, I was surprised when you said that earlier. If 18 it was really the case that, you know, the merging 19 parties would say, well, we're going to be able to 20 21 lower wages, and the Government said, well, that's 22 terrific, you know, go ahead, I mean, that's a disaster. All that should be relevant is that they're 23 24 lowering prices.

Now, it may be -- you know, there could be

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1	reasons why there could be all kinds of reasons why
2	prices could go down that are not objectionable, that
3	are not the result of monopsonistic behavior, but
4	that's what you want to figure out. The mere fact
5	that wages could go down, I don't see how that could
6	be a reason for approving a merger.
7	MR. MOORE: Go ahead, Marty.
8	MR. GAYNOR: Yeah, if I may, just let me
9	echo that point. And this is where this issue comes
10	up, and it's very important, it's really critical to
11	distinguish between those two forces. So if a merger
12	enables the parties to do something like invest in
13	technology, that leads them to, say, using different
14	kinds of labor and that results in cost savings, then
15	that's fine. That's an efficiency. That's savings.
16	But if the merger enables them to be less
17	competitive in the labor market, in that market,
18	reduces wages, that's a harm. You don't get to call
19	that an efficiency. You don't get to count those ill-
20	gotten gains in the plus column.
21	MS. HESSE: No, but you do get to count
22	firing employees as an efficiency.
23	MR. GAYNOR: Well, I think, again, it
24	MS. HESSE: And that's what I'm talking
25	about.

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1	MR. GAYNOR: depends on the source I
2	would say if it's from harm to competition, I would
3	say, no, you don't get to count that.
4	MR. JACOBSON: I understand, but for the
5	last 20 years, the main argument that people have made
6	to bless mergers is how many people are going to be
7	fired. Now, it's not it's absolutely true, no
8	one's used lower wages
9	MR. POSNER: It's rather troubling, I would
10	say.
11	MS. HESSE: Right.
12	MR. JACOBSON: It is troubling, but it also
13	goes to the heart of the issue that we're talking
14	about here, whether the consumer welfare standard is
15	really the be-all and end-all for this kind of
16	problem. And
17	MR. POSNER: But it doesn't help consumers
18	if the firing is the result of increased monopsony,
19	right? That's the if that's
20	MR. JACOBSON: Well, that's assuming the
21	answer.
22	MR. POSNER: So I
23	MR. JACOBSON: But the firing
24	MR. POSNER: but that but it would
25	seem it would seem to me that when the FTC

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1 evaluates a merger, it's got to figure out why people 2 are being fired and why wages are going down, right? 3 That has to be part of the analysis. 4 MR. JACOBSON: That, I agree. 5 MS. HESSE: I agree with that, too. But б typically the claim is we have tons of duplicative 7 laborers and we're going to lay off half of them 8 because we don't need two headquarters and we don't 9 need two, you know, stores in the same -- that's the kind of firing that we're talking about. And that has 10 11 typically been considered to be an efficiency, or at 12 least it's been -- actually, it has been considered 13 and it's been, I think, accepted. 14 I mean, it's not -- when the agencies -- to 15 Marty's point, I think, you know, when I'm 16 representing a client at the agency, in terms of 17 efficiencies, what you're trying to look for are 18 things like, well, this is going to allow us to build better products, or it's going to allow us to do 19 things faster. There are all sorts of procompetitive 20 21 benefits that you can highlight and that you want to highlight. 22 23 But there's no question that in the 24 synergies column, reducing labor costs is one of them.

MR. POSNER: But I have to add here, because

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1 I didn't know this, I mean, what a striking comment 2 that is because people in the earlier panel were 3 saying, well, you know, if we ask agencies to look at 4 labor markets, they're not going to have enough 5 resources to challenge as many mergers, and that would 6 be a terrible thing. But it sounds like the agencies 7 are already looking at labor markets and are doing it 8 badly. So they shouldn't, you know, look at labor 9 markets --10 MS. HESSE: I think -- I don't think that's 11 an accurate characterization at all. 12 MR. JACOBSON: They're looking at the 13 ultimate product price to the consumer, which is the textbook consumer welfare standard, and that's what 14 15 I'm saying is -- you know, works in 98 percent of the 16 cases. But in these labor cases --17 MR. POSNER: We don't know that. MR. GAYNOR: I think there's perhaps a 18 little bit of confusion here. So, one, just coming 19 back to this, look, the agency should look critically 20

at efficiencies claims, and everybody knows they do.
On this one, perhaps this is an area where a bit more
attention is in order. That's not necessarily the
same thing as a full-blown monopsony analysis. So I
don't think that's what people were talking about on

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1 the first panel.

2 And, again, I don't think that in my view 3 that one has to show that prices get passed all the 4 way through to final consumers. And that's not what 5 happens. Look at the Sysco case which I worked on when I was at the FTC. Those are intermediate product 6 7 sellers, right. We didn't look at whether consumers 8 paid more for packets of crackers at the end of the 9 day. The question there was whether the merger of these two huge food suppliers would affect the 10 11 purchasers, which were retailers, institutions, a whole bunch of things. 12

13 Pick any healthcare case, almost always involving a hospital named St. Luke's because St. 14 15 Luke's apparently is the patron saint of monopolists. 16 And all of those cases have that same characteristic. 17 It is not required by the courts to show that the final consumers, the patients who were getting care, 18 are facing higher prices. So I don't think that's 19 really at issue here. 20

21 MR. JACOBSON: Although the American Express 22 case makes what you just said a little more 23 complicated.

24 MR. GAYNOR: Well, that would be and I'm 25 sure is entirely another panel.

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1 MR. MOORE: Let's stay away the American 2 Express for this panel. MR. GAYNOR: So the Supreme Court blew that 3 4 one big time in my view. 5 MR. MOORE: We spent quite a bit of time on 6 AmEx yesterday, and we will tomorrow, so I think this 7 is probably not the panel for AmEx. I'd like to talk a little bit about 8 9 noncompetes because we are running out of time. So this is broadly a question about rules versus 10 11 standards and in thinking about standards, how we 12 might apply them in the context of litigation. So 13 Evan described how noncompete agreements can be 14 harmful or beneficial depending upon the 15 circumstances. One way to address that would be 16 through a rule or a piece of legislation banning 17 noncompete agreements in totality, like they do in 18 California. 19 Another approach would be similar to what Marty suggested, which would be an FTC rulemaking 20 21 procedure to ban noncompete agreements for certain 22

22 classes of workers. Yet another approach -- this is 23 what I would call the standard approach -- would be to 24 attack noncompete agreements through antitrust

25 litigation.

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1 And you might think of a noncompete 2 agreement, which is between an employee and employer, 3 as a vertical agreement. And typically vertical 4 agreements are governed by the rule of reason. So in 5 such cases, it's quite difficult to win those cases 6 because you have to prove market-wide harm and you 7 have to define a relevant market and you have to show 8 market power. And when we are talking about companies 9 like Jimmy Johns, it might be difficult to establish that Jimmy Johns has market power in a relevant labor 10 11 market.

12 So it's a three-part question. Rules versus 13 standards in trying to prevent the bad noncompetes 14 while retaining the possibility for good noncompetes to occur, and then what sort of things might the FTC 15 16 think about if we were to pursue the litigation 17 approach. And I will -- I'll throw this out to 18 anybody on the panel. We can start with Evan. 19 I mean, I have a cajillion MR. STARR: thoughts on that. So let me just say a few things, I 20 21 guess. So, you know, in the past few years in terms of the rules and the role of states and standards, you 22 23 know, we have seen kind of an unprecedented amount of 24 enforcement actions by the state AG's offices, and especially in Illinois and New York. 25

25

1 And when you talk to or you listen to those 2 AGs, many of them open a hotline, and especially the 3 Illinois AG told me that they got an unprecedented number of calls and hits on that hotline about what's 4 5 going on, and numerous situations where workers were 6 being threatened with noncompetes but they couldn't 7 make it to court. And they've had a number of high-8 profile investigations.

9 And so I think that the FTC could do something very similar where you open some of -- a 10 11 call line just to learn more information. And I think 12 that's a key here, which is that it's 2014 and we're 13 just discovering how prevalent these things are? And 14 I think that that's a tragedy because workers don't know what they get into -- what they're getting into 15 16 when they get into a job.

17 And I think that in general there is a lack of transparency and information about the use of all 18 these sorts of provisions. And so I think a 19 combination of clear policies, whether it's the state 20 21 or the FTC making the policy and public information, 22 along with lines where workers can call and report 23 abuses that can then be investigated, is a natural 24 step forward.

MR. POSNER: Yeah, let me add a couple

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1 thoughts. I think it might make sense -- it would be 2 sensible, as some states have done, to just flatly ban 3 covenants not to compete for lower income workers. 4 Illinois just did that, for example. What I think is 5 interesting, though, is that the lawyers are 6 accustomed to thinking of covenants not to compete 7 from the common law standpoint, and you alluded to 8 that.

9 I think that Amazon's covenant not to compete certainly would not be enforced in virtually 10 11 any state. It's absurd. And states tend to be 12 actually pretty strict. You can read a lot of these 13 cases. The judges are pretty tough about forcing the employer to identify the interest and then seeing 14 15 whether the restrictions are, you know, tailored to 16 that interest.

17 But nobody -- but common law judges don't look at covenants not to compete from a real antitrust 18 perspective, and as a result, you know, one result, of 19 course, is that there's no real remedy. So a regular 20 21 worker has very weak incentive to bring a case. The 22 only remedy is that the covenant not to compete is not 23 enforced. You don't get damages or anything like that. And so most workers don't bring these cases in 24 25 the first place. Only highly paid workers do who have

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1 some, you know, new opportunity.

2 The other thing, and Evan alluded to this as 3 well, is I don't think people realize how covenants 4 not to noncompete may be used on the product market 5 side. And so there are these cases where a business 6 has kind of tied up all the relevant workers, let's 7 say nurses or doctors or technicians of some sort, people who do have skills. And what that means is 8 9 that when some other firm tries to enter the market, maybe it's an established firm out of state and it 10 11 wants to come into this market, it can't hire people.

12 And the workers themselves may not even be 13 aware that they're constrained in any serious way. 14 You know, they don't know about the not yet existing 15 competitor who hasn't entered into the market. And so 16 they don't object; they don't demand a compensating 17 differential. I think this is actually quite a serious problem. And more so once, you know, we get 18 Evan's data suggesting how -- that these covenants not 19 to compete are ubiquitous. I suspect a lot of firms 20 21 have realized that these clauses are really an 22 effective way to extend one's market power in product 23 markets.

24 MR. GAYNOR: I'd just like to actually 25 amplify a little bit what Eric said. So we tend to

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think that for low-wage workers, again, we think, yeah, little to nothing by way of efficiencies. But for highly skilled people like, say, doctors, engineers, whatever, we think, well, there may be some real efficiencies, but this is where your point actually comes home.

7 So a hospital acquires a bunch of physician 8 practices and they make some investments in them. And 9 we say, hey, you know, kind of looks like a noncompete might actually facilitate that. But then those 10 11 doctors, who are key inputs, are foreclosed from a 12 potential competitor coming in, and that can harm 13 things substantially in a downstream market. And I 14 think that's something that we do need to be thinking 15 more seriously about.

16 MR. JACOBSON: Yeah, so in terms of whether 17 the FTC should file litigation against noncompetes, it's hard to imagine a case broad enough where the 18 impact on a relevant market would be significant so 19 that you would prevail in Section 1-type case. And 20 21 the other cases are going to be so narrow that it's 22 not really a huge use of resources. And that's why I 23 suggest a rule.

And, you know, rulemaking is always difficult. Here, you know, a line would have to be

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1 drawn between the lower wage earners for which there's 2 no efficiency in this or very little and the CEOs who 3 are inherently in position of trade secrets that are 4 difficult to protect once the CEO leaves the company. 5 But I do think hearings and a rule from the FTC, 6 albeit it would be challenged in court, I think it 7 would hold up, and I think it would solve these 8 problems without a lot of lost litigations in the 9 meantime.

10 MR. MOORE: So I'd like to move on to talk 11 about mergers again. So an example of a merger that 12 would substantially lessen competition among employers 13 as buyers in labor markets is the merger of the only 14 two hospitals in a particular geographic area. This 15 is an area where the FTC is quite active on the output 16 One relevant policy issue for our purposes is side. 17 how to handle mergers that have labor market effects but do not also have output market effects. 18

19 So the question is, what do you think is the 20 incidence of such mergers? And do you have any 21 examples of mergers that might present such a narrow 22 labor market question? We spoke a little bit about 23 this in the first panel, but I'm wondering if any of 24 you can think of any questions. And I'll throw that 25 out to the panel.

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1 MR. GAYNOR: Yeah, so I think that -- as I 2 said in my remarks, I don't think we know the extent 3 of those things, and I think that's actually an important thing that the agencies should strongly 4 5 consider doing, is trying to inform themselves better 6 about how extensive those things are. But, so, a 7 classic example of a product market merger that would not create concerns on the sell side but create 8 concerns on the buy side, let's say you have two coal 9 mines -- independent coal mines in a relatively small 10 11 town in West Virginia, pretty close to where I live. 12 And the coal is sold in a global market. So there's 13 no sale-side concerns with that merger, but there very 14 well may be substantial impacts on the labor market. 15 And that is a classic example.

16 There also could be similar kinds of things 17 where there's not a substantial product market overlap on the sale side. Let's say nursing homes or long-18 term care facilities and hospitals or doctor's 19 offices. If a nursing home merges with a hospital, 20 21 you'd look at it carefully, but it doesn't seem to me 22 terribly likely you see a lot of overlap on the product market side, and that probably would not 23 24 likely raise concerns, but there very well may be real impacts on the labor market side. 25

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1 MR. POSNER: I can think of a couple real-2 world examples. One would be there was a wave of 3 mergers involving chicken processing, meat processing 4 companies a number of years ago. These plants are 5 typically in rural areas where the labor markets are 6 thin. That would -- those would be a good example. 7 I mean, it was a while ago.

8 One that was somewhat more recently because 9 I've been looking for these myself, there were two oil companies that merged. BP was one of them and then, I 10 11 guess, some smaller oil company. And they -- and then 12 you might think this is complicated, but they had operations in the Gulf. Was that a labor market that 13 14 may have been consolidated as a result of the merger? 15 So those are a couple possible examples.

16 I'll just say, I'm confident MS. HESSE: 17 that you could come up with an example of a merger 18 where you have harm in a labor market but not in a product market. I do think, and I will just 19 reiterate what I said before, that this -- if you 20 21 begin to think about transactions from that 22 perspective, I think people need to step back 23 before they start doing that and really reassess 24 how we are thinking about merger enforcement and 25 what we are thinking about consolidation and how

1 we measure harmful consolidation.

2 Because I think if you're -- in order to 3 find harm in those markets is actionable, you do have to revisit whether the kind of classic Chicago School 4 5 way of looking at transactions is the right way to do 6 it, because I think you're going to find that in many 7 of those situations, what the argument is on the buy 8 side, I quess it is, is that this is making the 9 company more efficient and, in your coal example, able to compete better in a global coal market. 10

11 And I'm not taking a position on whether 12 that's a good or bad thing, but I do think you have to 13 recognize that that will be a change in how people are 14 thinking about transactions, and it will be a step 15 away from the Chicago School.

16 MR. MOORE: So we are limited in the amount 17 of time that we have. I'd like to do some rapid-fire policy questions and just run down the line. So the 18 first question, the FTC operates in a world of budget 19 constraints. So let's stipulate that in the near term 20 21 those budget constraints are fixed so we're not getting any more money. And we can also stipulate 22 23 that the agency spends a much higher percentage of its 24 competition-oriented budget on addressing concerns in 25 output markets and not on addressing concerns in labor

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1 markets.

Given what we've heard this morning and what we've been discussing on this panel, if you were in charge of allocating resources at the FTC. Would you divert resources from the output side to the labor side by a little, by a lot, by none at all and why? So let's start with Marty.

8 MR. GAYNOR: So I think as I indicated in my 9 remarks, I would find some targeted places to make 10 some investments in generating more knowledge and then 11 proceed from there. So I'd start with a little but in 12 a very targeted way and think of these as investments.

13 MS. HESSE: So I'll give the classic lawyer answer, which is it depends. And I think part of what 14 15 it depends on is what else is going on at the agency 16 and where the other resources would be deployed. Ι 17 certainly think diverting a little bit of resources to 18 these issues and thinking harder about them and trying to understand better about how to take enforcement 19 actions if they're warranted is worth it. 20

But I know from my time at the Antitrust Division there were many, many, many very challenging, very significant output market consolidations going on that required a lot of resources, and there weren't many to spare to look at some of these other issues.

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1 MR. JACOBSON: Yeah, so as I said, I would 2 spend the money on rulemaking. I think a 3 retrospective or two focused on labor markets would be 4 good bang for the buck as well. MR. POSNER: I would divert substantial 5 6 resources, as I was arguing earlier, to labor market 7 anticompetitive behavior, product market 8 anticompetitive behavior, they're just, you know, 9 substitutes for the firm. And so just think of, like, the police force trying to catch drunk drivers. 10 You 11 know, if you've got all of your resources on Highway 1 12 and Highway 2 goes the same place, your drivers are 13 just going to take Highway 2. 14 What you have to do is you put some 15 resources on Highway 1 and some resources on Highway 16 2, and I think the same thing has to be done here. 17 MR. GAYNOR: If I could convince Congress that the FTC does not need to continually monitor 18 gasoline markets, then I think that would free up some 19 resources that could be better spent in a lot of other 20 21 ways, this among them. 22 MR. STARR: I definitely think that a 23 moderate amount of resources should be spent on 24 understanding more about labor markets, and in

25 particular I feel like it would be straightforward to

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1 develop some screeners that would indicate at least 2 the use of these nonpoaching agreements, noncompete 3 agreements, and understanding what's happening at the -- within those firms that are merging. 4 That seems 5 like pretty low-cost and easy to do. And, yeah. 6 MR. MOORE: So the second question is going 7 to relax one of stipulations from the first question. 8 And let's suppose that Congress has appropriated funds 9 to the FTC earmarked specifically for addressing concerns about monopsony power in labor markets. And 10 11 this is on top of the budget that we already have. 12 So you have a pile of money to spend on 13 addressing labor market issues. How do you spend that pile of money? What -- Marty mentioned some of this 14 15 in his opening talk, but what are the first places or 16 where are the first places that you'll go to address 17 concerns about monopsony in labor markets? 18 MR. GAYNOR: So I'll just reiterate what I said, go after the stuff that's obviously bad and do 19 it now and don't let it sit. Think about crafting 20 21 rules on noncompetes as have been discussed, and put 22 some resources into really understanding better what 23 happens on the merger side where I think that it's 24 potentially highly important and significant, but we 25 have a pretty big gap in knowledge.

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1 I think I would invest the MS. HESSE: 2 resources in doing a more broad-scale investigation of 3 the question of whether or not you can correlate 4 growing concentration to wage inequality and wage 5 stagnation. I think if we could actually find studies 6 that people won't always agree on everything, but 7 where, you know, there was some sense amongst a core 8 group of smart antitrust economists and lawyers that there was really a correlation between those two 9 things, that would go a long way. 10

11 MR. JACOBSON: Of course, there was such a 12 correlation with the FCP paradigm back in the '60s and 13 look where they got us, but -- so I'd spend the same 14 money on retrospectives and rulemaking. Sorry to be 15 simple.

16 MR. MOORE: Okay.

17 I would spend it on merger MR. POSNER: I think one way to think about this is that 18 analvsis. there's been an immense amount of consolidation in 19 this country going back decades with the FTC and the 20 21 DOJ looking at the product market. I think probably a 22 lot of what was going on is they were saying, well, there's a national market, there's an international 23 24 market, this is fine, we can let these mergers go 25 through.

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And all through these mergers, they ignored the labor market effects, which are local and regional and were probably -- I mean, we don't know, but could very well have been very big. So I think there's a big, you know, chunk of missing social welfare and the Government has to catch up.

7 MR. STARR: I agree with Eric on the merger 8 review, and in particular I think that resources 9 should be spent on understanding actual concentration for workers, and in particular because labor markets 10 11 are two-sided markets. And I think that poses some 12 unique matching difficulties that search costs are 13 really high, and I don't know if we have a good way to generalize that across studies, and I feel like it 14 15 would be valuable to put some resources there.

MR. MOORE: Any last comments in the 35 seconds that we have before lunch?

MR. MOORE: So I totally agree that I think 18 19 understanding what happens is important, and I think more research is. I would not do -- spend more time 20 on looking at concentration. For reasons given on the 21 22 previous panel and actually on other sessions here, I 23 don't think that's a productive activity. I don't 24 think that's going to yield useful research evidence, 25 but I do think that we need to do more about this and

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1	we think when you do this and focus studies on
2	specific markets analogous to the study that was
3	mentioned about the effect of hospital mergers on
4	certain nursing markets, that's where I think the
5	effort should go.
6	MR. MOORE: So please join me in thanking
7	all of the panelists.
8	(Applause.)
9	MR. MOORE: And now we have a lunch break.
10	(Panel 2 concluded.)
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1 PANEL 3: WHAT CAN U.S. v. MICROSOFT TEACH ABOUT 2 ANTITRUST AND MULTI-SIDED PLATFORMS 3 MR. ADKINSON: Thank you for coming to 4 today's session. If you could take your seats, 5 please. My name is Bill Adkinson. I'm an attorney advisor in the Office of Policy Planning at the 6 7 Federal Trade Commission. It's my pleasure and privilege to introduce the panel on What can U.S. 8 9 against Microsoft Teach about Antitrust and Two-sided 10 Platforms. 11 We will have people collecting cards. Ιf 12 you have questions you want the panelists to consider, please write them out on the cards and pass them to 13 14 the folks in the aisle who are collecting them. 15 So 20 years ago this past May, the 16 Department of Justice brought its seminal antitrust 17 case against Microsoft, which culminated in a 2001 18 opinion by the DC Circuit and a subsequent consent The case was groundbreaking in many respects. 19 decree. It was the prototype for applying antitrust in 20 21 dynamic innovation-intensive industries. It raised 22 challenges regarding how antitrust can protect 23 competition and promote incentives for innovation 24 both by dominant platforms and edge players in the

25 tech sector.

1 Of particular relevance to these hearings, 2 Microsoft's dominant position was the product of 3 indirect network effects. The Windows operating 4 system was a two-sided platform serving applications, 5 developers, and computer users. However, the economic 6 literature on the network effects was in its infancy, 7 as David Evans reported yesterday. Similar antitrust 8 issues are currently arising in the context of a new 9 set of tech-sector platforms, such as Facebook, Google, Amazon, and Apple. 10

As we heard during yesterday's panels, these platforms also post challenges in applying antitrust in dynamic, rapidly changing industries. Enforcers and courts strive to protect innovation incentives of both platforms and platform participants and evaluate conduct by two-sided platforms and the impact of network effects.

18 This afternoon's extraordinarily distinguished panel will discuss how the benefit of 19 greater economic learning and hindsight can help us 20 21 better understand aspects of the Microsoft case and, 22 more importantly, how the experience and understanding 23 from the Microsoft case can inform and quide proper antitrust enforcement in this area today. 24 25 The panelists will each give opening

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1 statements of approximately five minutes each. They 2 are, starting from my right, Professor Daniel 3 Rubinfeld, New York University School of Law and 4 University of California at Berkeley School of Law; 5 Professor Douglas Melamed, Stanford University School of Law; Susan Creighton, a partner at Wilson Sonsini 6 7 Goodrich & Rosati; Professor Randy Picker, University 8 of Chicago Law School; Leah Brannon, a partner at Cleary Gottlieb Steen & Hamilton; and Professor 9 Timothy Wu, Columbia University Law School. 10 11 Dan? 12 MR. RUBINFELD: Thanks very much, Bill, 13 appreciate the introduction. During the time of the 14 Microsoft case, I was the deputy at the Department of 15 Justice in charge of economics, and I spent a good 16 deal of my time, along with a lot of help from a team 17 of lawyers and economists, thinking about the 18 Microsoft case. And I want to try to describe a couple of important elements that I think are worth 19 reviewing. 20 21 First, of course, we were not talking about

the world of two-sided markets in those days. We were talking about platform competition, however. The Microsoft case is about a two-sided market. There are customers both on the side of users of the Office

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1 suite and users of the operating system, as well as 2 developers for apps. But the two-sided market doesn't 3 have anything like the characteristics of the two-4 sided market we see with transactions because there 5 aren't single transactions that affect both sides of the markets at the same time. There are network 6 7 effects, there are externalities, and there's a kind 8 of feedback loop, but it's not one that has any direct 9 impact.

10 And as I will explain, what I think is 11 important, you'll see that nothing I'm going to say 12 depends on the fact there is or there is not a 13 characterization of a two-sided market. I think 14 that's largely a misleading characterization for 15 purposes of looking at the Microsoft case.

16 What was important to me was network 17 And at the time that I was doing work on effects. this case, along with the staff, there was a 18 significant literature in the economics world on 19 network effects. People like my colleagues Carl 20 21 Shapiro, Mike Katz, Stanford's Garth Saloner, NYU's 22 Nick Economides, and a lot of other people were writing about network effects, but it was new and it 23 24 was controversial.

That was an important point to develop, and

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1 network effects turned out to be an important part of 2 the case. They helped to describe the way in which 3 Microsoft maintained its market power and its 4 operating system. And it was in a way the key to the 5 And it was the key to the case because the case. 6 Government believed and developed the argument that 7 network effects could generate substantial monopoly power and could lead and support practices that would 8 9 allow Microsoft to maintain its market power and monopoly power in the operating system market. 10

11 So the key to the case was to develop 12 network effects. And the other thing that was important and essential was to show how network 13 14 effects drove the important barrier to entry. And the barrier to entry, as most of you would know, was 15 16 that in order to compete in the operating system 17 market, you had to actually have useful important applications, so entry really occurred in two steps. 18 You had to generate an application and an operating 19 20 system.

21 And that application's barrier to entry 22 became the term that was the norm of the case for us. 23 As far as I know, it was a term never used before the 24 case was filed, and I can tell you by the end of the 25 trial, Microsoft, as well as the Government, was using

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1 the term every day in the trial. And I think that was 2 really a significant part of the case.

3 There was a platform argument made in the 4 case, and it is true, I think, that the operating 5 system and the apps upon it can be described as a 6 But the two-sided nature is really not platform. 7 important. What was important was that the platform 8 really supported this monopoly power. Interestingly 9 enough to me, the issues about platforms that came up during the case were issues -- relevant issues as to 10 11 whether this market power, substantial market power, 12 really was sustainable and significant. And the 13 argument was raised by Microsoft in the case that that 14 monopoly power could be overcome. There would be 15 competition for the market that would be powerful.

16 But what's striking to me, and it turned out 17 to be important in the case as the facts developed, was that it was very hard for Microsoft to specify 18 what that competition was. And for me, one of the 19 really striking exhibits in the case was a Microsoft 20 21 exhibit saying we face substantial competition from 22 known and unknown sources. And my view is when you have to rely on unknown, unnameable sources to defeat 23 24 monopoly power, you really have a weak case. And that 25 really struck the tone for me. And I will stop and

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1 pass to Doug.

2 MR. MELAMED: I'm going to focus on what I 3 think of as the legal implications of the case. The theory was conventional and straightforward -- well, 4 it wasn't conventional in the sense that Section 2 had 5 6 been pretty moribund at that point, but it was 7 conventional in the sense that it was entirely 8 consistent with longstanding Section 2 principles. 9 The theory was basically this. Microsoft 10 had monopoly power in operating systems -- PC 11 operating systems. That monopoly power was protected 12 by substantial entry barriers, specifically the indirect network effects and the so-called 13 14 applications barrier to entry. The point is you need 15 lots of applications in order to have people buy your 16 operating system. You won't have applications until 17 lots of people buy -- have already bought the operating system in particular, a problem that was an 18 entry barrier. 19

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Okay, Microsoft, therefore, has a monopoly protected by entry barriers and it engaged in conduct that increased the entry barriers compared to the butfor world. The important point here, the premise of the Government's case was not that the entry barrier was impregnable, not that Microsoft would have a

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1 monopoly forever rather that it had -- there were 2 entry barriers, and it was a question of raising 3 the entry barriers compared to the rest of the 4 world.

5 Okay, how did Microsoft raise the entry 6 barriers? With Netscape and Java which were two 7 uniquely important potential platforms, application platforms and thus potential facilitators of new 8 9 operating system entry. The conduct was the kind of conduct that would pass any ordinary test for 10 11 anticompetitive conduct under the antitrust laws, and 12 it was to serve no efficiency enhancement purpose at 13 all. There are one or two footnotes I'm not going to bother with, and thus the conduct made no sense except 14 15 as a device to increase entry barriers. Plaintiff 16 wins. Perfectly straightforward.

17 So what was the controversy about other than the sort of importance of going after this exciting 18 new company and the world's youngest \$40 billion 19 person and so forth? And I think it was because the 20 21 case entailed the application of these very 22 traditional principles in a very new context that had 23 not previously been the subject of antitrust scrutiny. So there was the issue of network effects, as Dan 24 25 said, widely discussed among some economists in the

literature, hotly contested in the litigation and in
 the public controversy about it.

3 People actually wrote articles taking issue with the story -- one of the fables about that that 4 5 was used to tell the story of network effects was the 6 qwerty typewriter keyboard. The notion was it was 7 really inefficient and it was just first mover advantage that the original developer of the keyboard 8 9 that was developed for a very different purpose game. And there were people who went in and said, well, 10 11 that's not true, that's really not the story of the 12 keyboard, as if that had anything to do with the 13 vitality and importance of the theory.

So that was contested and now it's a part of everybody's everyday vocabulary. The notion that antitrust laws maybe shouldn't apply to dynamic, hightech industries -- Schumpeterian competition, winner take all. Hotly contested. The court resolved that and now we don't argue about that.

Is intellectual property a trump card because they are protecting their intellectual property rights? Well, the DC Circuit said that boarded on the frivolous so people don't make those arguments anymore. Product design, part of -- an important part of the case was the court's finding

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that a critical part of the design of the operating system, mainly the commingling of operating system and browser code, was anticompetitive. There had been a tremendous argument in some precursors in the law suggesting that product design is sort of safe harbor from an antitrust point of view -- points of view.

8 The most important significance, I think, of 9 the case beyond the specific findings of that type are basically this. The court analyzed the facts at a 10 11 very fine level of granularity. It did not say this 12 is a case about product design; this is a case about 13 intellectual property. This is a case about putting the -- having the browser packaged with the operating 14 15 It got down to very fine details. It had to system. 16 do with moving the browser from the add/remove 17 utility, thus making it harder for OEMs to distribute 18 other person's browsers. At that level of 19 granularity.

It is about principles rather than rules. And every point that a party argued that there was a rule of thumb that should decide the case, whether it was the Government arguing for a per se tying rule in one of its theories or defendants arguing exclusive dealing can't be regarded as anticompetitive unless it

1 entails a 30 or 40 percent foreclosure, the court 2 said, no, we are not interested in legal rules like 3 that, in effect. 4 A key sentence in the opinion, which I 5 happened to read over the weekend when I was preparing for this, is the following. The court said in this 6 7 quote, "It is difficult to formulate categorical antitrust rules absent a particularized analysis of a 8 9 given market," a caution that I wish the Supreme Court in the AmEx case had borne in mind. 10 11 Okay, just two other things and I'll end 12 quickly. Causation. Hugely important causation theory. It's interesting that Dan said the unknown, 13 14 it was a kind of a laughable position for Microsoft to 15 point to. But a lot of people used that very argument 16 against the Government and said what's your story? 17 What difference would it have made? It's all speculation, doing in Netscape, this is just 18 19 theorizing. Why do we think it's actually going to matter? 20 21 And the Government, of course, didn't have the answer because one never knows what innovations 22 23 would take place in the but-for world. But the 24 Government's theory was quite different than that. It

25 was that by eliminating these potential facilitators

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1 of new entry, they were raising the entry barriers and 2 in a probabilistic sense, reducing the likelihood of 3 new competition. 4 It was a theory available only in a monopoly 5 maintenance case, it wouldn't suffice in a creation of б monopoly case. And it was a theory that by its very 7 terms embraced and depended on concepts of 8 Schumpeterian competition. 9 So the big lesson in my view from the Microsoft case. It's not about its particular 10 11 holdings. It is about the proposition that I -- we 12 were all taught the first day of law school right? 13 It's all about the facts. The antitrust principles were proven to be robust in that case in part because 14 15 the court didn't get hung up on last year's rule of 16 thumb developing a different factual context for 17 different problems, and rather applied the principles to a careful analysis of the facts. 18 19 MR. ADKINSON: Thanks Doug. And I neglected to ask the panelists to remove the microphone so they 20 21 can speak directly into it, please. Thank you. 22 MS. CREIGHTON: So my name is Susan Creighton. I wanted to thank the FTC for the 23 privilege of getting to appear on this panel today. 24

25 So unlike Dan and Doug, who are kind of authoritative

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1 about what does the Microsoft case mean and they were 2 critical in formulating the case, I was only -- I was 3 involved in the case in sort of the input phase. I 4 was representing Netscape, which was one of the 5 complainants at the time.

So in five minutes, it's hard to cover all б 7 the things that the Department got right. Doug and Dan have mentioned some of them. Some of the points I 8 9 was going to highlight overlap with some of the points they did make, but Doug and I did not actually 10 11 coordinate but I wanted -- the meta thing I thought 12 that you guys got most right and drives a lot of the 13 rest of the analysis is clearly the Department took the time to actually look at what the evidence was 14 15 showing regarding the nature of competition in the 16 operating system market.

17 And what it showed, I think, was that while browsers were a complement to Windows for users, they 18 were a potential threat to Windows for application 19 developers. So the browser was a potential competitor 20 as an applications platform. And then trying to --21 22 rather than take that simple fact pattern and then try to jam it into some preexisting set of boxes like 23 24 leveraging, the Department actually followed the evidence where it led and reached a number of 25

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conclusions that I think have remained foundational
 for how we should think about platforms 20 years

3 later.

4 Let me highlight just four. First, DOJ 5 recognized the products that may have the potential to б compete even if they don't look like each other. Ι 7 think that's really important because even to this day, regulators can find it a challenge to recognize 8 9 the company as maybe actual or potential competitors even if they look different or if in some respects 10 11 they are complements. That tendency to narrow the set 12 of competitors only to those that just look the same 13 can result in under-enforcement, or over-enforcement, 14 Microsoft itself being a great example of how if you 15 had just looked at saying do browsers compete with 16 operating systems, the answer is obviously no, end of 17 case.

18 Second, as both Dan and Doug, I think, have mentioned, the Department recognized that the key to 19 the operating system competition was the indirect 20 21 network effects between users and app developers so 22 the OEMs and ISPs were important distribution 23 channels, but the key dynamic by which operating 24 system platforms competed was by the number of applications written for OS, which in turn depended on 25

1 attracting users on one side and app developers on the 2 other.

3 The third feature I think that was really 4 critical was that they focused on platform competition 5 as a horizontal rather than vertical problem. So internet browsers were a threat not because they were 6 7 a profitable complement. They were very simple pieces 8 of software that eventually everyone gave away for 9 Rather, Microsoft itself recognized the free. browsers in Java threatened to make it much easier for 10 11 app developers to write across platforms than having 12 to engage in the cumbersome ports from one OS to 13 another that were characteristic then.

And that multiplatform access in turn would make it much easier for users to switch devices and thus operating systems. Think about how much easier it is to switch devices, for example, if you're streaming music rather than trying to port your music downloads from one device to another.

Finally, the DOJ recognized the platforms were dynamic, as Doug mentioned, so they needed to understand which business practices were problematic without chilling those that were not. In the process, they advocated for a test that asked whether Microsoft's conduct would make business sense but for

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1 its tendency to exclude rivals. Although I'm not sure 2 that this test is always and everywhere the best one, 3 it works well in distinguishing between procompetitive 4 innovation and anticompetitive conduct when dealing 5 with dynamic innovative markets.

б It thus enabled the Government and 7 ultimately the court to distinguish, for example, 8 between bundling IE with Windows at no charge, which 9 was permissible, versus implementing restrictions that had no possible benefit to any platform participant 10 11 and served only to make it difficult to load rival 12 software on the machine and hence for users to 13 multihome.

14 Now, the court did not agree with the 15 department on all things, but the department's 16 analysis laid the basis for it to be affirmed on all of its key points. First, the court didn't adopt the 17 18 Department's no-business-sense test, but it did strike down product design changes that served no legitimate 19 purpose, and which Microsoft did not show a plausible 20 21 competitive justification.

22 On the other hand it permitted those for 23 which Microsoft did offer a legitimate benefit. The 24 court took the Department one better in its horizontal 25 analysis by rejecting a Section 1 tying approach to

1 product integration given the ubiquity of bundling on 2 software platforms and the plausible procompetitive 3 benefits of such integration. 4 And, finally, the court affirmed the 5 department's key insights regarding the nature of OS б platform competition for users and developers and a 7 threat to cross-platform switching posed to Microsoft's market power. Thank you. 8 9 MR. PICKER: Hi, thank you. Thanks for having me here. I'm Randy Picker, a professor at the 10 11 Chicago Law School. So I'll note as everyone, I would 12 assume, saw that Paul Allen died yesterday. The 13 Microsoft story is a great story, and Paul Allen was so central to it, so I'm sorry to see him gone. 14 15 When I teach the Microsoft case in my 16 antitrust class, I start with the Internet Tidal Wave 17 memo, which is the memo -- it was Government Exhibit 18 20 in the case. It's really Gates at his best in the sense that he is looking forward in the industry, 19 seeing where it is right now and where he thinks it's 20 21 going to go. And I think he makes two critical points 22 there. 23 So I thought what Dan said about, you know, we don't need to talk about two-sided markets. 24 That

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1 the interaction between what was going on on the 2 developer side and what that meant for the consumer 3 side. So his first point is he says, look, Netscape's 4 got a 70 percent usage share and what they are doing 5 is, as he puts it, is they are moving Key API, the б application's programming interface, into this 7 middleware layer, and the great risk to Microsoft 8 there is is that that will commoditize -- his word --9 the underlying operating system, and no one will care what operating system they're using. 10

11 The question I always ask in class is what 12 brand of plumbing do you have in your house? Not 13 faucets, we Americans have a peculiar fascination with 14 faucets. I mean actually the plumbing, and no one 15 ever knows. It's not that plumbing's unimportant, 16 right, but it's a commodity, okay. So Gates saw that 17 Netscape posed this risk of changing where competition was taking place with regard to developers and the way 18 in which this browser, sort of this adjacent market, 19 was going to maybe then or in future generations going 20 21 to directly compete with Microsoft in the OS market. 22 That's the story the Government told.

I think that was exactly the right story but that's what Gates saw as well. The second thing he says is, and this is where Dan talks about these

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1 unknowns, Gates says, oh, some people are talking 2 about this really frightening -- that's his word --3 possibility where someone will come up with a kind of 4 device that you can use to browse the internet, and it 5 will be a lot cheaper than a PC, and you won't need the Microsoft operating system. It is really hard to 6 7 imagine what that world might look like, right, so other than today, right? 8

9 So Gates understood exactly what was going to happen and saw that and the threat that that posed. 10 11 It's not that I think -- I don't know what Microsoft's 12 current market share is on PCs, I suspect it's pretty 13 high still. What's happened to Microsoft is not that 14 somehow their position has been lost in PCs, but rather this whole other world of computing devices has 15 16 exploded and the PC is just, you know, a piece of it 17 but not the dominant position it was.

18 So Gates saw all that and responded to 19 Netscape in a powerful way because of that. The Government's case, I mean, we've talked about the 20 21 success of it. I want to hear more about some of the 22 failures. So there was an attempted monopolization 23 claim of the browser market, that died. How we think about what an incumbent -- a dominant incumbent does 24 25 with regard to new adjacent markets, I think that's a

really important platform issue, and the attempted
 monopolization claim was in that spirit.

3 So I'd love to hear more from -- what did 4 you say they were, that they were the definitive 5 sources -- on that. And then obviously the tying 6 claim, which again relates to this question of to what 7 extent are we going to constrain an incumbent into 8 moving into these adjacent markets. That issue 9 dropped on remand, and I thought that was exactly the right strategic choice, but from a standpoint of 10 11 knowing what the law is, that remains a little 12 frustrating.

13 I think the question we should ask today is now with the benefit of all this development of two-14 sided markets is to ask, well, if we bring that 15 16 analysis to bear on the Microsoft case, do we get any 17 different insights into the behavior that we saw 18 there, right? So when you teach two-sided markets in class, I have this very simple sort of example of why 19 pricing below marginal cost might be very sensible in 20 21 two-sided markets. We don't usually allow that in 22 one-sided markets. You build it up, and what you're 23 trying to convey to students is, is that you can't 24 just apply your single-market intuitions to two-sided 25 markets. You've got to be more sophisticated.

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1 So go back and ask the questions. If we 2 look at what Microsoft did through a two-sided market 3 lens, does it look any different? I think the answer to that is sort of no. I thought what Doug said was 4 5 right, which is the granularity with which the case б was presented and which the DC Circuit found 7 compelling, I talk about add/remove in class, too, you 8 know, the commingling of code, the embedding of the IE 9 icon. 10 Microsoft didn't offer a procompetitive

justification for any of those. And I think even in a world of two-sided markets it would struggle to do that now. Oh, I'm out of time, so I should stop.

14 I do think, you know, the bolder story would 15 be to argue if you're Microsoft back then as to why 16 fragmentation in these markets would be bad, that's 17 what Google has tried to do unsuccessfully in Android. And I think if you made those arguments in a two-sided 18 market maybe you'd be able to try to bolster their 19 I think ultimately those are losers, but 20 position. 21 that's the direction I would want to go, I think. 22 But I do think it's interesting to relook at 23 what they did, ask what could they have done had they 24 simply tied and not engaged in all these other silly

behaviors, what would the case have looked like and

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1 how would we see that through a two-sided framework. 2 MS. BRANNON: Hi, I'm Leah Brannon. I want 3 to thank Bill and the FTC for inviting me to join on 4 this panel. At the time of the case, I clerked for 5 Judge Ginsburg on the DC Circuit. So I'm really 6 excited that we're talking about the case 17 years 7 later, that it's held up pretty well over time. It's been cited -- I checked in Westlaw the other day --8 9 it's been cited more than 1,500 times in cases and law review articles, including twice by the Supreme Court 10 11 in Trinko and linkLine, more than 100 times by the 12 Federal Courts of Appeals, around 300 times by the District Courts, and 1,200 law review articles. 13 So 14 it's been cited many times. I like to think that's 15 because it was groundbreaking, but it's probably also 16 because it was just a really long opinion and it 17 covered a lot of topics.

18 So as you probably all know, the opinion touched on monopoly power, the standard for 19 monopolization, licensing restrictions as an active 20 21 monopolization, predatory product design, exclusive 22 dealing, deception, attempted monopolization, tying, course of conduct, causation, and that's just the 23 24 antitrust discussion. It actually gets cited -- a lot of those citations are for the judicial misconduct 25

1 section, which was an odd sideshow part of the case. 2 I think, you know, my opinion is that one of 3 the most important contributions of the case was the 4 court's decision to apply the rule of reason, just the 5 basic rule of reason, to monopolization claims. There 6 were other standards. I think Susan touched on this, 7 and Doug. There were other standards floating around 8 at the time. Even in connection with Microsoft, a 9 couple of years earlier, Judge Williams in the consent decree case, had written an opinion basically 10 11 indicating that if the defendant has any 12 procompetitive effect for its conduct, no matter how small, that immunizes all of its conduct. That was 13 one possible standard. 14

15 There was also the test the Government was 16 pushing that Susan called the business sense, you 17 know, does something -- does conduct make no economic 18 sense but for a tendency to monopolize. So there were 19 a lot of other standards, and the court adopted and 20 applied the rule of reason. So I'll turn it over to 21 Tim.

22 MR. WU: Thank you very much. Tim Wu, and I 23 want to thank Bill and also the FTC. It's a pleasure 24 to be here. My involvement in the actual Microsoft 25 case was somewhat tangential. I was a research

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1 assistant for Larry Lessig right when he became the 2 special master and then later was a clerk for Dick 3 Posner, right about when he -- so if anyone remembers 4 the strange chapter when all these guys got involved, 5 but, of course, that all amounted to nothing and so 6 that was that.

7 I have studied -- actually maybe more 8 important is I was working in Silicon Valley when the 9 decision came down. And that's what I think is -- and felt some of the after-effects. And that's what I 10 11 want to focus on in my comments here. I think -- you 12 know, I think there are many lessons from Microsoft. But I think it teaches us something very important 13 about enforcement policy in particular. And the --14 essentially the courage and the determination and the 15 16 -- as was already described, the great care with which 17 the Government brought its case is I think an important model for the agency, for FTC, for the 18 Justice Department, for anyone who is serious about 19 enforcement of the antitrust laws. 20

You know, to make the point obvious, the antitrust laws don't have any effect unless they're enforced, and they go through periods of great quiet and calm when enforcement doesn't happen. You know, in the very beginning of the law's passage, it wasn't

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seriously enforced for almost a decade. And so it
 always takes, you know, a certain, I'd say, courage to
 bring these cases.

I think it's worth remembering that the 4 5 Microsoft case, I happen to think it was antitrust at one of its finest hours, maybe along with AT&T, and I 6 7 think other people have said that. But at the time, 8 there was enormous resistance to the idea of bringing 9 this case. Doug already highlighted some of the reasons. People said it's a new and dynamic industry, 10 you know, someone else will come along and swallow 11 12 Microsoft in ten minutes.

There was also -- and I want to emphasize 13 this -- no really clear price effects for what they 14 15 were doing. Explorer was being given away for free. 16 You know, Microsoft was like a charity, giving this 17 new product to everybody. You know, so why would 18 anyone argue with that? Bill Gates was kind of a darling at the time, a symbol of American 19 entrepreneurship. And so it required sailing into the 20 21 headwinds to some degree to bring this case. 22 And I think that was an act of courage, and 23 I think the lesson for today's enforcers is that they 24 need to have the courage and also have the -- let me 25 make three particular points about this -- have the

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1 courage to take cases in these kind of situations. So 2 here are the three things I think are particularly 3 important. 4 One is the fact that Microsoft was brought 5 without clear, at least as far as I know, clear 6 evidence of price effects. So, you know, it wasn't 7 obvious that the campaign against Netscape was 8 actually inflating prices to consumers. And, 9 therefore, the case was brought -- you know, had to be brought in this more complex theory that, in fact, 10 11 that it was affecting competition for the platform 12 and was monopoly maintenance. And, so, you know, that took a certain -- I 13 14 think we've in subsequent years sometimes been too 15 nervous, unwilling to bring cases when we don't have a 16 clear price effect, and it's worth going back to Microsoft to notice, even if the product is given away 17 for free, that doesn't necessarily tell us the whole 18 19 story. Second and related to that is the 20 21 observation -- and everyone knows this -- is that the 22 greatest benefits for successful antitrust enforcement 23 have to did with dynamic benefits with innovation 24 effects, for example. And that means the

25 beneficiaries may be unknown, in fact, and not

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1 obvious. This is my second point. So when you look 2 at the aftermath of Microsoft -- actually it didn't 3 really help out Netscape very well. Netscape plunged 4 in market share, Explorer did, in fact, gain a 5 monopoly. It was at something like 95 percent in 2002 6 or so. So, you know, it wasn't -- I mean, Netscape 7 became Mozilla and so forth, but it didn't actually 8 save that company.

9 The real beneficiaries at the time when you look back were the companies that were beginning and 10 11 starting to make -- to view the web as a development 12 platform to try to make their fortunes on top of the 13 HTML protocol and on the internet. In other words, 14 the great beneficiaries are really Google, Facebook, 15 Amazon, and some other companies who might have been 16 in a very different situation with an unpoliced 17 browser.

18 And I think -- you know, I don't think, maybe -- I think people were thinking about that in 19 abstract terms, but Google was a college project when 20 21 the -- or grad school project when the case was begun. 22 So it was impossible to realize some of the value that 23 might be created but required the sort of faith and 24 not just faith but some ability to realize that the dynamic benefits might be lost. 25

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1 I realize I'm out of time, so I'll just say my third point. The last lesson, I think, for 2 3 enforcers or, frankly, innovation policy from Microsoft, I think, is taking a careful effect -- a 4 careful look at the effect of what I call the 5 6 policeman at the elbow for the conduct of a 7 monopolist. Many people have noticed, sometimes 8 said, well, you know, no one -- they didn't break 9 up Microsoft. It kept a monopoly. But one of the most -- I really think the 10 11 most important effects, as I've suggested, was the 12 fact that Microsoft after the suit was chastened and 13 operated with a policeman at the elbow and therefore 14 never did some of the most obvious moves they could 15 have on an unregulated browser, such as making sure, 16 for example, that their search engine was a default 17 and was impossible to remove or any of the other 18 things you might have done with a completely unsupervised browser. 19 So I've used up my five minutes but those 20

20 So I've used up my live minutes but those 21 were some of the things I thought.

22 MR. ADKINSON: I want to thank the panelists 23 for keeping it on time. That was a great job. I also 24 want to thank my colleague, Derek Moore, for having 25 thought of this topic for a panel. He deserves a lot

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1 of credit for that.

I'm going to set various groups of questions and in the hope that I'll elicit responses. The first set will broadly cover issues surrounding liability under Section 2, exclusionary conduct, incentives to innovate, and harm to competition.

7 The Microsoft court identified the 8 application's barrier to entry as the central source 9 of Microsoft's market power. And the Government asserted that Microsoft illegally maintained the 10 11 operating system monopoly by protecting this barrier 12 from nascent competition from the Netscape browser. 13 Among other things, the Government alleged that 14 Microsoft undermined the competitive threat posed by 15 Netscape by technologically tying its browser to Windows and by placing restrictions on distribution of 16 17 competing browsers.

18 The Court of Appeals upheld the District Court's finding that Microsoft's conduct illegally 19 maintained its Windows monopoly, while noting the 20 21 difficulty of assessing the extent to which that 22 monopoly would have been eroded absent Microsoft's exclusionary conduct. The Government also claimed 23 24 that this conduct constituted an illegal attempt to 25 monopolize the browser marker, but the Court of

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1 Appeals overturned the District Court's finding of

2 such a violation.

3 And with that background, let's first talk 4 about innovation incentives. How important to the 5 Government's case were concerns that Microsoft's 6 exclusionary conduct, particularly towards browsers, 7 would reduce incentives by small industry players to 8 innovate? What light does Microsoft shed on the 9 current concerns that incentives to innovate at the edge are undermined by fears that a dominant platform 10 can use its position to discriminate against or 11 12 otherwise exclude competitors in related markets? 13 And, Dan and Tim, you can start us off 14 please.

15 MR. RUBINFELD: Sure, thanks. It's a great 16 So, for me, the characterization of the question. 17 case as an innovation case would be accurate. What motivated me and I believe the decision to bring the 18 case was the concern that absent some of the practices 19 that we've been talking about, there would have been a 20 21 substantial innovation. But as Doug pointed out, it's 22 very hard to say exactly what the future will be in a 23 highly rapidly changing world.

24 So the innovation case was pushed through by 25 talking really in an ex ante point of view about the

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1 likelihood or probabilities of various things 2 occurring. And for me -- for me, the story we would 3 tell about innovation was to say suppose we're in a 4 world where Java was successful, Java carried by --5 Java software carried by Netscape and maybe other 6 browsers at a different point in time -- would allow 7 competitors to compete, both by finding alternative operating systems that were not Windows-based and the 8 9 apps to support it.

10 Now, why is this harmful to innovation? 11 Well, we know from an economics point of view that if 12 you've got a large installed base it makes good sense 13 when you're innovating to innovate to protect that 14 installed base. And the installed base was generating billions of dollars of revenue for Microsoft and it 15 16 was pretty clear that much of the innovation was 17 directed in that direction. So it's not that 18 Microsoft wasn't innovating and, in fact, continued to improve Internet Explorer during the period we were 19 looking at, but the innovations were directed to 20 21 protect rather than to grow and take on these new 22 unknown sources that I talked about earlier. And that 23 is a problem.

Now, the reason why the problem for mebecame really striking was that during the

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1 investigation period, at the behest of my boss, Joel 2 Klein, I made a number of trips, mostly to Silicon 3 Valley, in which I both publicly gave rather innocuous 4 speeches and privately met secretly with many of the 5 players in the market. And during those secret 6 meetings, which were spy-like, by the way, I had to 7 travel incognito and meet in hotels and things of that 8 sort, I never thought when I went to DOJ that I would 9 be going through that process.

10 But what was striking about the meetings was 11 not that everything I heard was true. There were many 12 claims that I decided and we decided were invalid. 13 But what was striking was that they were secret. The 14 firms that thought they wanted to enter into the 15 market to compete with some of the products, either 16 direct products that Microsoft generated or ones that 17 they might be in markets where they would be 18 competing, those firms were afraid to publicly even talk about their concern. 19

I think there's a strong indication -- to me, there was to me, that the fact that firms that were likely to be entering, small innovative companies, were afraid to talk and, B, were likely to move their innovations in different directions suggested there was a strong problem. And many of

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1 those firms later, with a little pulling and tugging, 2 testified at the trial. But I can tell you it took a 3 long effort to get those witnesses to become public. 4 And, for me, that served as a strong motivation to try 5 to develop the argument that, ex ante, there was a б strong probability that many of these firms would be 7 innovating and we would see a different world had we 8 not acted.

9 MR. WU: Well, it turned out you were right, I think. And, you know, I think what we learn about 10 the -- from the case particularly in this area is how 11 12 sensitive, and I think that the methods to go and 13 interview people are a good one of understanding the process of innovation on platforms and the effects --14 15 and the particular techniques of exclusion that you 16 tend to see on platforms. You know, I'm interested in 17 the history of major platforms -- major tech platforms. 18

And when you look at the history of Microsoft a little bit over a longer period, you see they had sort of developed a pattern, which is to say that they, you know, sought to control the platform. Bill Gates, I think, did have the genius that Randy described. He had this incredible ability to see the future and the ambition to want to control it.

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1 So he, you know, always sought -- since the 2 early dealings with IBM, saw the platform as all-3 important and invited the developers to the platform, 4 but then had the pattern of then copying the most 5 successful of the -- copying the most successful of б those who developed on their platform and then one way 7 or another ensuring that the Microsoft version of it 8 won.

Now, that wasn't what the Microsoft case 9 ended up being based upon. And I'm not talking about 10 11 the antitrust theory, but I am talking about the 12 industry effects. So after a while, the industry, I 13 believe, began to think of Windows as a place where you were invited for dinner and ended up being dinner. 14 15 You know, it wasn't a safe place to innovate and which 16 is why everybody was jumping over to the web as an 17 opportunity to develop freely without Microsoft 18 interference.

And so then you had this -- you know, whether -- I think the Justice Department did realize it, but there's this crucial moment where Microsoft might have just repeated the pattern which it had repeated on several occasions, gain control of the major platform, which by then would be the browser, and use that control to see which -- first of all,

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understand which applications were the most successful and then copy them and make sure it became dominant, in which case, we'd have a future where, you know, Bing would operate the general search engine, maybe there'd be some version of Facebook browser, but it would all be Microsoft all the way through.

7 And I submit that would be a less -- that would have been worse for the environment and worse 8 9 for innovation. So I only bring this up to say that maybe, and since this is the hearing, we're talking 10 11 about ongoing cases, that's a pattern that we should 12 pay attention to and look for. You know, are there 13 currently firms that are trying to control, you know, a major platform, that major platform, and are they 14 taking some of the Microsoft-like moves to try to make 15 -- to open themselves up and then -- to open up the 16 17 platform but then ensure that they control the most valuable sources of profit on that platform. 18

19 MR. ADKINSON: Susan, did you want to say --MS. CREIGHTON: Yeah, sure. 20 Thank you. So 21 just on the anonymity point, Dan, you brought to mind 22 that I actually in connection with the first Microsoft 23 case, the one that led to the consent order, ended up 24 filing a brief on behalf of three anonymous amici, which I think is -- one would have to look at whether 25

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1 or not there's ever been anonymous commenters to a 2 Tunney Act proceeding before or after. It seemed very 3 amusing to everybody in DC; was not so funny to people 4 in Silicon Valley. 5 And having represented companies down in 6 Silicon Valley for about 30 years, my general 7 experience has been that if people are lining up 8 around the door to complain about you, you're probably not the ones you want to worry about. It's the people 9 putting their bags over their heads that are the 10 11 scarier ones. 12 I did want to pick up on a point, Bill, that 13 was, I thought, implicit in your question, which was I 14 don't actually think -- maybe the Department was, but 15 I don't think the court was concerned about intraplatform competition, per se. You mentioned edge 16 17 competitors, if that was what you were referring to. 18 Or at least it seemed to me that what the court was really focused on was preserving interplatform 19 competition, the horizontal point I made earlier, in 20 the notion that what would preserve competition on top 21 22 of the platform was that kind of interplatform 23 competition. 24 And I think that's certainly what we see

today if you consider, you know, sort of for those of

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1 you who were here when Catherine Tucker spoke 2 yesterday, she was talking about the competition 3 between Uber and Lyft, for example. That's the 4 competition that's taking place on top of the 5 platforms, and you see intense competition on both the 6 driver side and the user side, which she had pointed 7 out, and that intense competition, in turn, is 8 facilitated by the fact that it's so easy to switch 9 and multihome. And why is it so easy to switch and multihome, it's because on both sides of that app 10 platform or app, you know, service, they run across so 11 12 many different devices that no device maker or 13 operating system platform really could try to lock 14 them down on either side.

15 So I think that that -- it's the 16 interplatform competition that gives us that freedom 17 for just sort of results in that vigorous, you know, sort of competition on top of the platform as well. 18 But, you know, a further point, and I mentioned this 19 in my opening remarks but wanted to emphasize it, was 20 21 I think for you to get that kind of robust interplatform competition, platforms do have to be 22 able to innovate, and that that innovation 23 24 historically has taken the form of integrating 25 previously separate functions.

1 So, you know, as I mentioned in my opening 2 remarks, the DC Circuit expressly rejected the 3 application of per se tying rules to software platform 4 markets on the ground that productive integration was 5 a common feature in competitive software markets and б companies often competed by gaining a first-mover 7 advantage by being the first to integrate what had 8 been previously two separate functions.

9 So the court concluded that "This ubiquity 10 of bundling in competitive platform software markets 11 should give courts reason to pause before condemning 12 such behavior even in less competitive markets such as 13 desktop OSs." So I think that the court was exactly right in its focus, and if we're going to play kind of 14 15 "what the world might have looked like if the court 16 reached a different conclusion," let's say they had 17 not ruled that way, people sometimes can forget that 18 what happened after browsers is there actually was then the next sort of round of vigorous competition 19 that was taking place, really right as the Court of 20 21 Appeals decision came down was between online portals. 22 Right?

23 So there was vigorous competition amongst 24 AOL, which was perceived as dominant, MSN, and Yahoo!, 25 really kind of from -- really late 1990s up through

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1 the mid 2000s. And all during that time, they were 2 vigorously integrating new features. They were adding 3 travel, messaging, search. If the DC Circuit's 4 decision had come out differently, might those 5 platforms have been sued for unlawful leveraging into 6 edge services? And in making that assessment, how 7 would we know where true portal services left off and vertical services began? So we know in retrospect 8 9 that platform -- various platform competition amongst the portals actually ended up greatly accelerating 10 11 competition in edge services.

12 So Expedia was founded as part of MSN and it 13 was spun off separately. You know, I think Tim 14 mentioned, you know, Google, Facebook. A lot of those companies got -- started as point providers in 15 16 providing apps, if you wanted to call it that, where 17 clearly the consumer demand had been surfaced by this 18 interplatform competition among the portals. So I think the DC Circuit was right to let that portal 19 competition thrive. The evidence was that that, in 20 turn, was what really enabled competition to take off 21 22 from there.

23 MR. ADKINSON: Doug?

24 MR. MELAMED: Yeah, let me just add a brief 25 thought. I agree with everything that Susan said. I

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1 just want to add this, in the spirit of let's not 2 forget the lessons we learned in the Microsoft case. 3 So at the time of the Microsoft case, there was a 4 tremendous kind of chorus of people who were concerned 5 about the case, thought it was misquided or paid to б say that, I'm not sure which, who were saying, oh, 7 qee, if you do this, you're going to interfere with the ability of Microsoft and firms like Microsoft to 8 9 innovate. You're second quessing their product design. You're second guessing their innovation path, 10 11 and so forth. A legitimate concern, to be sure. 12 What was striking is that the Government 13 responded quite explicitly by saying the issue is not 14 what set of rules will enable Microsoft to maximize its innovation but what set of rules will enable the 15 16 market to be most likely to innovate. We were 17 concerned with maximizing market-wide innovation. And I think the court got it right for all the reasons 18 that Susan said. 19

And I know I'm sounding like a Johnny Onenote here, but by contrast to the AmEx case, where the alleged victims of the wrongdoing -- Discover, Visa. and Mastercard -- didn't pay much -- the court didn't pay any attention to them. The court just focused on the defendant.

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1 MR. ADKINSON: Thanks. Let me just have one 2 followup. Susan correctly distinguished between the 3 competition among platforms as opposed to competition 4 with edge players on a platform. We did -- we haven't 5 heard a fair amount of complaints, something like the 6 fury you're talking about about Microsoft back during 7 the building up of the case.

8 There's fear expressed by edge players that 9 they will not be able to innovate in certain areas, 10 but it is a different circumstance. So I wanted to 11 ask if people wanted to comment directly on those 12 sorts of concerns. We heard it in the panel on 13 platforms in action yesterday, for example.

14 MR. PICKER: Yeah, I'd be happy to. So and 15 I think part of that goes to what Susan was saying 16 about integration. So when we see a dominant firm 17 entering a space where you see someone on the edge who's come in, I think the questions you have to ask 18 is is this a failure of antitrust policy, is this a 19 failure of IP policy or not a failure at all. So 20 21 software patents emerge in the 1960s, precisely 22 because IBM at that time was selling everything on a bundled basis. 23

You got the mainframe, you got the services,and you got software. And people who wanted to enter

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1 the software business didn't see a good way for them 2 to "propertize" their innovations. IBM would imitate 3 it immediately. Antitrust failure, IP failure. The 4 software patent emerges in response to that. 5 And so I think when we see people who say 6 we're not seeing this innovation, one possibility 7 is is the incumbent's actually incredibly well 8 situated to go into the market, and keeping them 9 out of the market would be a mistake. That's one characterization of the 1956 AT&T final judgment 10 11 where we blocked AT&T from going into computers. 12 The other is is the people who run the IP 13 regime have said, actually, we want competition to take place there and you don't get a property right 14 15 there. And then the question is what's antitrust 16 supposed to do about that, if anything? 17 MR. WU: I come back and I, you know, on just on this particular edge, on this edge issue. I 18 19 wouldn't disagree with Susan at all that interplatform competition is very important. I'm just nervous, I 20 21 think, sometimes that it becomes the only concern when 22 we talk about policing of innovation platforms. You 23 know, in some ways, it was an unusual setup, 24 Microsoft, in the sense that you had a platform that 25 had an application that itself could become a

1 platform.

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2 And if that's the only -- if we just look 3 for that particular, I don't know, four-leaf clover, we may overlook problems, other types of problems. 4 5 Microsoft also included an attempted second count, or I don't know which count it was, but the attempted 6 7 monopolization count as well. And that was not, I 8 don't think, necessarily based on a purely inter -- so 9 I just think we should not overlook the challenge of policing where innovation actually happens and the 10 11 conditions of innovation.

I would accept the fact that you do have to be very careful about whether integration is actually procompetitive or not. But to say we're only going to look at intercompetitive platform cases, I think, would draw the wrong lesson from Microsoft.

17 MS. CREIGHTON: I guess I would just add maybe one other thought for people is though when you 18 first had announced sort of multisided platforms and 19 stuff, I was actually thinking this was going to cover 20 21 hardware as well as software, because actually, you 22 know, going back to the IBM peripherals cases, the 23 problem of product integration is actually at least as intense in hardware as it is in software. 24

And those cases, as many of you know, I'm

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sure, involved stuff like, well, you know, if IBM integrates, you know, sort of the disk drive with the CPU and the interface disappears, how are you possibly supposed to compete as a separate disk drive manufacturer?

6 You know, and that's a tough spot to be in 7 if you're a competing disk drive manufacturer, but, you know, most people are not lugging around separate 8 9 keyboards and disk drives. And, you know, so -- and I actually think probably the point I'm going to make in 10 11 a few minutes, I actually think the problems with 12 stickiness and lack of multihoming and so forth are 13 actually much harder in hardware than software.

14 And so I think we need to be careful in 15 thinking about as we're concerned about, well, gee, we 16 need to preserve the importance of complementarity. 17 How would that world look like if we're talking, for example, about integrating in hardware as well as 18 software, because it's hard for me to explain why you 19 would have one rule for one and not for the other. 20 21 MR. PICKER: And IBM eventually won those 22 cases.

23 MS. CREIGHTON: Yeah.

24 MR. PICKER: I mean, they've lost sometimes 25 below, but they won on appeal.

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1 MR. ADKINSON: On the facts. 2 MR. PICKER: On the facts. Absolutely. 3 MR. ADKINSON: It was just to try to put 4 together another panel for those cases. 5 (Laughter.) 6 And now I'd like to ask us to MR. ADKINSON: 7 consider aspects of the Microsoft case in hindsight. First, how might the legal learning in the recent AmEx 8 9 decision have influenced the Court of Appeals if that case had been decided before Microsoft? And, Doug, it 10 11 sounds like you might be interested in that one. MR. MELAMED: Well, the alternatives would 12 13 be not at all or badly. 14 (Laughter.) MR. MELAMED: Well, AmEx is not literally 15 16 applicable, I suppose, because it purported to be 17 addressing the rules that would apply to what they 18 called a two-sided transaction platform, which is one that involves simultaneous transactions between 19 parties on both sides. And I don't think anybody 20 21 would have said back then or today that Microsoft is 22 facilitating simultaneous transactions between 23 purchasers of the operating system on the one hand and 24 apps developers on the other. So one, I suppose, 25 facile answer is to say it's not applicable.

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1 I do think, though, or I worry, though, at 2 least, that the decision could have perversely affected the case if it had kind of induced the court 3 4 to get all tangled up in the question of is two-5 sidedness something that requires a different body of 6 law, a whole different conceptual apparatus. How do 7 we think about this? You know, Lorain Journal involved a two-sided platform as well, but I think we 8 9 all agree that the court got it right there without getting too bogged down, because these things really 10 have to turn ultimately on the factual inquiry as to 11 12 whether two-sidedness does or does not matter.

13 Now, in the Microsoft case, Microsoft 14 actually made a two-sided defense. It made one 15 specific one. It said, we need to integrate the 16 browser into the operating system in the way that we 17 did and the way the court ultimately found to be anticompetitive because that will enable us to 18 establish a uniform stable platform which will benefit 19 app suppliers on the other side of the platform. 20 The 21 court rejected that on the facts.

Now, if Microsoft were right that its platform was more efficient, in a technological sense for apps writers, then it would have legitimately brought two-sidedness into the conversation, and it

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1 might be, you know, a very difficult factual question 2 of how you resolve it. They lost it on the facts. 3 But the broader argument that was implicit in what Microsoft was saying went something like this: I need 4 5 to strong arm OEMs and others to exclude rivals by conduct that is not otherwise efficient so that I can 6 7 increase network effects benefits available to writers 8 of apps.

9 That should fail, it seems to me, as a 10 matter of law. Without any worry about two-sided 11 jargons and platforms, any fancy hand-waving for the 12 simple reason you can't justify anticompetitive conduct on account of the fact it's going to lead to 13 14 realized scale benefits. That's kind of -- pretty 15 implicit in the National Society of Professional 16 Engineers. The market is supposed to decide the 17 tradeoff between scale benefits on the one hand and heterogeneity of suppliers on the other hand. 18

19 So I guess what I'm saying is AmEx could be 20 dangerous if it unleashed a series of arguments that 21 would say, well, what I'm doing benefits the other 22 side. It is not literally applicable, but at the same 23 time, I think we all have to recognize, just the way 24 we recognize the significance of network effects, that 25 two-sidedness can matter on the facts as a way of

1 explaining in a very genuine way whether the conduct 2 was anticompetitive because inefficient or whether it 3 really was efficiency enhancement. 4 MR. ADKINSON: Leah. 5 Yeah, I'm actually not sure if MS. BRANNON: б it's not literally applicable. I think it will be 7 interesting to see how the courts interpret AmEx. The Supreme Court obviously did talk about transaction 8 9 platforms, but it also said that a court needs to consider both sides of a market, except when indirect 10 11 network effects are minor. 12 So I'm not really sure where you come out on 13 it. It will be interesting to see what happens with But I think setting that aside, I think the 14 AmEx. 15 conduct would be viewed the same way by the DC 16 Circuit, even if AmEx had been handed down. 17 Obviously, AmEx applied a rule of reason; the DC 18 Circuit was, you know, very aggressive in applying the rule of reason. 19 As Doug mentioned, Microsoft did have some 20 21 justifications that it threw out that took into account effects on both sides of the market. So one 22 of them was for the license restrictions that 23 24 prevented OEMs from altering Windows. And one of the

25 things that the OEMs couldn't do was have, you know,

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1 another browser icon or present another browser to the 2 user in the boot sequence. And Microsoft argued that 3 that would undermine the principal value of Windows as 4 a stable and consistent platform that supports a broad 5 range of applications and is familiar to users. б So their justification is pointing at both 7 value to apps developers and to consumers, and the DC 8 Circuit was open to that. It considered that argument, and like Doug said, it failed on the facts. 9 The court noted that Microsoft had not substantiated 10 11 that claim at all. It also noted in passing that -it was a little bit hard to believe that adding a 12 13 desktop icon was critical because that doesn't affect the code already in the product and does not self-14 15 evidently affect either the stability or consistency 16 of the platform. But Microsoft really hadn't

17 attempted to back up that justification.

18 Interestingly, Microsoft also put out a justification for one of its -- Microsoft had designed 19 Windows to override the user's default browser choice 20 21 in certain scenarios. And one of those was when the 22 user moved to the internet through the My Computer or 23 Windows Explorer panes. And Microsoft argued that 24 while that might be bad for browser competitors, it 25 was good for users because it helped them move

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seamlessly from local storage devices to the web in the same browsing window. So they were making a consumer-focused argument. And the DOJ didn't rebut that argument, so Microsoft's argument was determinative.

6 So I think because of the way the court 7 looked at it, it was taking those types of arguments 8 into account. There was also obviously the tying discussion, which we have touched on, where the court 9 very explicitly said it wasn't inclined to apply a per 10 11 se condemnation of tying because courts should only do 12 that after considerable experience with a particular 13 type of conduct.

14 And Microsoft's technological tying and what 15 it was doing in this case was new, and the court noted 16 that it could have important efficiencies both for 17 third-party developers and for consumers. And because of that, it was not appropriate to use the per se 18 The court remanded for the lower court to look 19 rule. at the actual effects of Microsoft's tie. And 20 unfortunately for, I guess, the rest of us, the case 21 22 settled and the lower court never got a chance to 23 grapple with that.

24 MR. ADKINSON: Daniel.

25 MR. RUBINFELD: Sure. I've said previously

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1 that I didn't think that things would look very 2 different had we seen the AmEx decision before we were 3 investigating Microsoft, and I think that's the case. 4 But I suspect that if we look to the private side, the 5 story would be different because one of the areas of concern in private litigation, of course, is what the б 7 but-for world would look like in terms of pricing. And so it would be natural to ask yourself, how did 8 9 pricing of the various licenses for the operating system relate, if at all, to what the developers had 10 11 to pay to get access to the tools to develop their 12 software for operating system.

13 And what strikes me about that is, even 20 years later, I still dream parts of this case, and I 14 15 remember the exhibit numbers, Randy, and I can cite to 16 you various footnote quotes from Jim Allchin, the head 17 of Windows, and so on. I have no idea exactly what fee was paid by developers to get access to the tools 18 to develop apps because that was really irrelevant. 19 I'm sure there was a very small modest fee, so that 20 21 would not -- that certainly did not affect my thinking 22 in looking at the case.

But I could imagine now that in the result of the opinion in AmEx being unclear as to how focused it is on transaction markets may lead to a lot of

1 discussion about pricing, a good portion of which may 2 turn out to be not very useful. 3 MR. ADKINSON: Thanks. I'd like to move to 4 the next group of questions that are related, 5 basically questions about the extent to which new 6 economic learning may make us view the Microsoft case 7 differently or whether it reinforces our view, has literature -- the new literature on two-sided network 8 9 effects that confirmed or contradicted the analysis of the applications barrier to entry in Microsoft? 10 What 11 about the assessment of switching costs and 12 multihoming? Was it consistent with what we look at 13 in the contemporaneous analysis? 14 What does it suggest about the importance of 15 indirect network effects as a possible source of 16 market power? And whether -- in assessing whether a 17 dominant platform has violated Section 2, how do we assess whether a nascent competitor could or might 18 have significantly eroded the platform's dominant 19

condition? 20

21 And I guess the only thing I'd add to that 22 is how has technology changed and how have changes in 23 technology assessed that assessment as well? And, 24 Susan, did you want to speak to that? 25

MS. CREIGHTON: Sure. I can get us started,

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1 at least. Yes, so I think -- I'm not an economist. 2 Dan would have to correct me, but, I mean, that the 3 subsequent economic literature certainly has confirmed the importance of indirect network effects. 4 What I 5 think maybe is a little bit new or at least from what I remember of what was understood at the time, is 6 7 there was an element in the Microsoft executives' 8 thinking -- actually Randy mentioned it -- sort of 9 like in the Internet Tidal Wave, there was a real key fear about the internet and browsers kind of accessing 10 11 to the internet that made it sort of qualitatively 12 different from, like, just another OS platform.

13 They weren't concerned about it the way they would have been concerned about Apple, even if Apple 14 had been more robust or something. And I think it was 15 16 -- their intuition was, and Randy's probably read the 17 Internet Tidal Wave memo more recently than I have, but that you're going to detach -- you know, I 18 mentioned about sort of hardware, software, this 19 notion that you were going to detach the software from 20 21 the hardware.

22 MR. PICKER: Absolutely.

23 MS. CREIGHTON: And that that was really 24 going to be profound. And I don't remember seeing 25 that being kind of in the economic literature, until I

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guess more recently, like I just, you know, was reading Professor Catherine Tucker's work, for example recently. And she was talking about, I think, that something that she's been emphasizing in her work more has been sort of that the really key component to how effective indirect network effects are is how much they're tied to localized hardware.

8 Like, so she gives the example I think I 9 mentioned earlier about, like, the iTunes Store, but she said, you know, when she was teaching, she always 10 11 used to give as like the classic example of, you know, 12 nobody's ever going to move out of iTunes Store, 13 because they have all these, you know, downloads. And 14 then along comes music streaming, and who cares? 15 So, you know, so I think the reason that 16 sort of often business executives intuit to things, it 17 takes us a little bit longer to kind of articulate what was that core fear. I mean, I think if you 18

19 compare -- I mentioned Uber and Lyft, for example, you 20 know, so it's been interesting the last 18 months. 21 Obviously, Uber has had some PR issues, but despite 22 that, you know, 18 months ago they had like 80/20 23 market share relative to Lyft. And, you know, I was 24 just looking last week, and now it's more like Lyft 25 is, like, at 35 percent, going -- trending towards 40

1 percent. You know, that's a big shift in a market 2 that you think of as having a lot of indirect network effects in 18 months. 3 4 You know, and I think it's that -- I think 5 this is what Professor Tucker was talking about about, 6 you know, in a purely virtual world. I don't know if 7 we realized -- or I don't know that it's widely recognized, but it seemed interesting to me that if 8 9 you're completely detached in this virtual environment that indirect network effects may be less locked in 10 11 than if you have kind of that localization to hardware 12 that Microsoft enjoyed. 13 MR. ADKINSON: Douq? 14 MR. MELAMED: So I just want to pick up on 15 something that Susan said which I thought was 16 interesting. She made the observation, which I think 17 is clearly correct, that sometimes the intuition of business folks is ahead of the conceptual abilities or 18 experience of the economic observers. I think that's 19 a really important insight in this particular context. 20 21 The literature, as I understand it, on twosided markets has been extremely illuminating. And it 22 23 ha given us a vocabulary and a contextual way of 24 thinking about the feedback effects between people on both sides or entities on both sides of the platform. 25

25

1 But that's just another way of talking about what was 2 called the chicken and egg problem in the Microsoft 3 case, indirect network. 4 I'm not saying there's nothing new. 5 Catherine Tucker's work which certainly suggested it's 6 not just the size of the network but it's also some 7 cost -- switching costs and maybe market penetration that affect the stickiness of those networks. 8 Those 9 were all the important insights that helped people understand the next case involving a platform and 10 11 helped them decide, among other things, whether two-12 sidedness is material to the analysis of the conduct 13 at issue. 14 But I don't think they -- they presented us 15 with a whole new conceptual framework that says, gee, 16 let's just tear up the Microsoft decision and start 17 over because we now understood the world doesn't work the way we thought it would. I think what's happened 18 19 instead is that the lights that we had to illuminate the world are a little brighter than they used to be. 20 21 MR. ADKINSON: Tim. 22 MR. WU: Sure. I'm going to echo something 23 Doug said, which I think you can as well as going 24 forward go backwards in the way you think about

things, and I think there might be some evidence of

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1 that happening. You know, to the credit of the 2 Microsoft era on the enforcement side, and some of 3 this was already emphasized, people are very serious 4 about interplatform competition, very serious about 5 thinking about the competition in the entire market or even the entire industry, and as part of that thought б 7 carefully about the potential of Netscape as 8 essentially a potential competitor, though we didn't 9 use that -- you didn't use that language, but in some ways were thinking hard about the fact that Netscape 10 11 might emerge as a competitor on the platform to the 12 Microsoft operating browser.

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In recent -- and I think I want to contrast 13 that with some of the -- not all this thinking is 14 15 public, but some of it is -- the thinking surrounding 16 some of the mergers over the last ten years in the 17 tech industry. I'll focus on Facebook's acquisition of Instagram, for instance. If you think about 18 Facebook acquiring Instagram, in fact, it has some 19 similarities in the sense that Instagram was maybe not 20 21 an active competitor, at least a potential platform competitor, to Facebook. But they -- it clearly was a 22 23 situation where you would have interplatform 24 competition. But if I'm not mistaken, the FTC did a 25 second request but approved the merger with no

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1 conditions. The analysis of that merger by the British 2 3 Office of -- I can't remember what they were called, Office of Fair Competition. 4 5 MR. PICKER: Fair Trading, I think. б MR. WU: Fair Trading or something, is 7 public. And if you look at it, it actually shows how 8 two-sided market analysis can work against you and, in 9 fact, act as a kind of a cage. So the agency looked to -- or the Office looked at the Facebook-Instagram 10 11 They concluded that on one side of the market merger. 12 because -- on the advertising side of the market, 13 because Instagram had not yet started selling 14 advertising, it was not competing with Facebook at 15 all.

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16 And on the other side of the market, they 17 decided that Facebook's photo app was not yet important enough to be a constraint on Instagram. 18 And so they concluded that Facebook and Instagram were not 19 actually competitors at all. Now, if you had that 20 21 kind of thinking in Microsoft case, I think, you know, 22 it would have been an entire -- so in some ways, you 23 can go backwards. You can get misled by, in my view, I think it was a mistake to not take a more serious 24 25 look at that merger.

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And in some ways, I think we can too eagerly embrace new tools and get away from the bigger guestions, which I think we were properly looking at in the Microsoft era.

5 MR. ADKINSON: Thanks very much. One last 6 question on liability. It's the chicken and egg 7 problem that Doug brought up. To what extent did 8 Microsoft, by introducing DOS and Windows, solve that 9 problem for program developers and computer users, and 10 did any of its alleged exclusionary conduct arguably 11 serve those sorts of objectives?

12 And then how, if at all, does the Microsoft 13 experience inform the assessment of claims by current 14 platforms that their potentially exclusionary conduct 15 is, in fact, needed to attract participants to one or 16 the other side of the platform?

17 MR. RUBINFELD: Well, I'll just say quickly that I spent a lot of time talking about -- thinking 18 19 about chicken and eqqs. And just as a side light, if you were to read my econometrics textbook, I have an 20 21 empirical example of which came first, the chicken or 22 the eqqs. And I used relatively sophisticated time series methods to conclude that we don't know the 23 24 answer.

25 (Laughter.)

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1 MR. RUBINFELD: And so my comments here will 2 be similar in the sense that we were worried deeply 3 about the chicken and egg problem. And I agree with 4 Doug, it was really thinking about two-sided markets, 5 but I certainly didn't have enough sense to realize 6 that I should be developing the theory much more 7 deeply and trying to sort out the two sides and understanding the nature of the feedback effects 8 9 between what's happening on the developer side and what was happening on the user side, was the key to 10 11 the case because the nature of that feedback effect is 12 what was motivating Microsoft in its behavior.

13 And I just want to say the facts that we focused on really were facts that really got at the 14 15 issue of how important that chicken and egg problem 16 And it wasn't until we really looked deeply at was. 17 the facts that we understood that there was a twolevel entry problem here and that created a really 18 huge barrier to entry. I think that would typify why 19 the network effects in the Microsoft case were quite 20 21 different than some of the network effects we see in other markets which are more localized. 22

23 MR. ADKINSON: Susan, did you want to --24 MS. CREIGHTON: Sure. So I don't know who 25 came first, the chicken or the egg, or Windows or app

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1 developers. But sort of more generally I think it's 2 awfully important, as the chicken and egg problem 3 suggests, to be -- when you're trying to figure out 4 kind of what are the business executives up to, to be 5 looking at sort of business practices in light of 6 their effects on both sides of the platform. And I 7 think sometimes that gets misunderstood as sounding 8 like it's sort of a defense move. But I actually 9 think it's -- it's just as likely to cause you to miss things sort of for under-enforcement as for over-10 11 enforcement.

So just like as on an under-enforcement 12 13 example, so David Evans, who spoke here yesterday, 14 and I worked on behalf of Netflix on the Time-15 Warner/Comcast proposed acquisition. And people were 16 tending -- you know, sort of the justification for the 17 deal was that since the companies operated as local cable systems, but never in the same zip code, there 18 was -- on the user side, there was no overlap, so how 19 could there possibly be a problem? 20

But if you actually -- but if you looked at it as a two-sided market since those same cable systems also provide -- were multichannel video distribution providers, they connected households with video programming providers like, for example,

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1 Netflix. And so if you focused just on, well, gee, 2 we're just, you know, gaining scale on the user side, 3 you would have missed what would have been a 4 hypothetical, you know, sort of a hypothesized 5 competitive harm from the deal that this was actually 6 bad, increasing the merging parties' ability to 7 extract more market power over the other half, other 8 side of the platform like video providers, which I 9 think is, in fact, what DOJ and the FCC ended up concluding when they challenged the deal. 10 11 So conversely, I think, a failure to 12 recognize sort of that how business practices may be needed for sort of chicken and egg issues, there's a 13 14 prominent example in the recent Microsoft Android 15 decision about, that I think that the E.C. missed. So 16 at issue in that case was a restriction that 17 prohibited OEMs from introducing incompatibilities 18 that would cause fragmentation and drive app developers off the platform. 19 Now, I think if you bring a Microsoft 20

analysis to bear and say, well, gee, why would a platform provider want to, you know, sort of prevent practices that would drive app developers off the platform, it's not very hard to think about why that might be a legitimate concern by a platform operator.

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But since the E.C. basically defined the relevant market as being instead of -- in sort of the chicken and egg end-users and app developers, they defined the relevant customers as being OEMs. And so effectively, app developers kind of disappeared entirely from the analysis.

7 So I think if you -- so getting those 8 dynamics right and understanding sort of how business 9 practices might be interrelating, can help you both 10 understand kind of when you should and when you 11 shouldn't be challenging particular practices.

MR. ADKINSON: I think we have, like, two tothree minutes more on this subject, Randy.

14 So the answer to which came MR. PICKER: 15 first, the chicken or the egg, the answer is IBM came 16 first. So -- and what I mean by that is, is recall 17 how the IBM PC is released and what that means for 18 Microsoft. IBM decides they're going to build a PC. They don't have a chip. They don't have an operating 19 They don't have languages. IBM goes to 20 system. 21 Microsoft and says, can you give us the languages you 22 have? Microsoft says yes.

IBM then turns to them and says, can you
give us an operating system. And Microsoft says, oh,
you should go down the road and talk to Gary Kildall,

1 we don't have one of those. So at the point where
2 Microsoft is being offered a key to the future kingdom
3 of the PC, they say no. And when the IBM PC is
4 released, it's released with three operating systems,
5 not one.
6 So I don't know that Microsoft solved
7 anything. I think Gates and Allen did a great job of

8 getting into languages at the right time. And when 9 the language deal was going to die, then they 10 scrambled to sort of buy an operating system from 11 somebody, and that's what happened.

12 Don't also forget the competition as we moved from DOS to the world of the GUI. 13 There is robust, interesting competition there. 14 IBM has 15 TopView and eventually PS/2 and OS/2, the first time 16 they're sort of released to build the system they want 17 They built the 1981 machine with the to build. pending 1969 antitrust suit, and that clearly 18 influenced what they did there. So I don't want to 19 overstate what Microsoft did. 20 21 MR. ADKINSON: Leah or Tim?

MS. BRANNON: I was thinking about lessons from Microsoft in light of this panel and what I would draw from it. I don't want to insult anyone who was with the DOJ at the time or Microsoft or the court,

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but I think, you know, one lesson that I took from it is the importance of thinking everything through carefully, all of the elements of the claim. And it was a marathon. I mean, it was such a large case with so many different pieces.

б And, you know, from my perspective, it 7 seemed like at some point everyone ran out of steam. 8 And maybe that's inevitable. But, you know, on the 9 attempted monopolization, the DOJ's failure to allege a browser market or Microsoft offering justifications 10 11 for its conduct that it didn't substantiate at all. 12 Or where they did substantiate certain things, the 13 Government failing to come back and say, that's ridiculous, that's pretextual, you know. 14 It was a 15 really big case, a massive record. And I think, you 16 know, a lot of litigators did an excellent job on it, 17 but there are so many pieces, it just seemed like important elements of claims got lost in the shuffle. 18

And I think by the time they got to the remedy phase everybody, including the court, was just completely out of energy. So it's something to think about, I think, in these big cases.

23 MR. WU: One more minute? I think also why 24 this is almost the exact opposite perspective, when 25 you look at the individual moves that made the

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1 Microsoft case, it's always -- also very important to 2 look at Microsoft in the context of a big trilogy of 3 cases, IBM, AT&T, and Microsoft, which effectively, 4 were the United States' tech policy for almost 20 or 5 30 years and had, I think, really substantial effects. 6 And this stuff is very hard to -- you know, it's all 7 anecdote, how do we prove that how much of, you know, the big boom in tech and the return to American 8 9 dominance had to do with these three antitrust cases. Well, they didn't stop it, I could put it that way. 10

11 And, you know, in each of them -- I mean, 12 each of those cases, you know, there was a policy 13 which, you know, was really the policy of the Sherman 14 Act, which is we're concerned that monopoly can act as 15 a narcotic. We're concerned with stagnant markets. 16 We're interested in the overarching question of 17 innovation in these industries.

Now, those aren't legal tests, but they're policy. And I think it's -- as we examine this, it's very important not only to look at the 5,000- but also the 100,000-foot view of what is the U.S. doing in antitrust, doing in tech policy, and also to contrast that and ask what are we doing now.

24 MR. ADKINSON: I'd like to now move to a few 25 remedy questions we had, both the specifics of the

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1 remedy and also the overall effect of the Government 2 So looking first at the remedy orders, there case. 3 was both the structural remedy that the District Court 4 imposed and was then reversed by the Court of Appeals, 5 and then there was a settlement adopted on remand. б How effective and appropriate were the 7 various proposed remedies such as the structural separation of Windows, Office and -- of Microsoft 8 9 Office and Windows and the consent decree? Was designing relief complicated by the difficulty of 10 11 predicting the extent to which Microsoft's market 12 power would have been undermined, absent its 13 exclusionary conduct? 14 And in light of the experience of Microsoft, 15 how would courts approach designing injunctive relief 16 to remedy concerns that a dominant platform has 17 enhanced its market power by illegally excluding a nascent competitor? 18 19 Randy, you want to start us off? MR. PICKER: Sure. You know, I think -- and 20 21 I know there's going to be a panel on E.U. and the 22 U.S. I do think when you think of remedy in the Microsoft situation, you should look at sort of the 23 24 two iterations of the U.S. remedy and then the two 25 remedies we saw in the E.U. with regard to Windows

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1	Media Player, and then the browser choice or browser
2	ballot with regard to Internet Explorer.
3	On the U.S. side, I think the conceptual
4	question you want to ask is I think you always want
5	to ask this in an antitrust case or in a class is had
6	we implemented the remedy at the beginning, would it
7	have prevented the behavior from happening, right? So
8	if that's what the structural remedy is supposed to
9	do, would it have worked in that but-for world? And
10	if you'd split Microsoft into an OS company and an
11	Office company, let's say, I think the OS company
12	would have still had the same incentives to protect
13	its monopoly, vis-a-vis Netscape. So in that sense, I
14	think that's a conceptual remedy that doesn't seem to
15	work.

I'm completely with Leah in her sense that 16 people got tired and that you get this remedy. Now, I 17 can't tell if the remedy in the U.S. was effective for 18 19 the reasons Tim gave earlier, which is this policeman 20 thing. Maybe that is, right? Why did Microsoft not 21 go after Google in a powerful way? That's a really, 22 really important question. I think we're sort of all guessing in the dark on that. 23

24 On the two E.U. remedies, if I could just 25 mention those briefly, as you'll recall what happens

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1 there with regard to Windows Media Player, the E.C. is 2 willing to say to Microsoft, you have to create 3 versions of Windows with and without the Media Player, 4 but you don't have to charge different prices for 5 those. And I wrote a paper before they did that 6 saying I thought that was a sensible remedy. It has 7 to be seen, I think, in many ways based on what we 8 know from a public standpoint as a complete failure. 9 They sell 35 million copies of XP with and 1,787 10 without.

And then on the browser ballot issues, you'll recall what happens there is is Microsoft is rolling out Windows 7, the E.U. jumps in and says, oh, we don't want you to tie Internet Explorer to Windows. Microsoft cuts a deal, where in Europe, when you turned on a computer the first time, you would be presented with a choice of 14 different browsers.

18 And given that the U.S. case was litigated 19 on the premise that having two buttons was confusing, both Internet Explorer and Navigator, I think the only 20 21 conclusion from that is the Europeans are just a lot 22 smarter than United States citizens, so -- or maybe 23 the market had evolved or something, but that remedy was something of a failure as well in the sense that 24 25 Microsoft breaks the browser ballot when they release

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1 Service Pack 1 for Windows 7 and no one seems to 2 notice for 17 months. 3 MR. ADKINSON: Douq. 4 MR. MELAMED: I just want to comment on one 5 aspect of what Randy said, which was the conceptual 6 basis for the proposed divestiture remedy in the 7 Microsoft case. So let's back up. Microsoft is about 8 protecting markets for competition so we don't have to 9 have regulation, we can allow competitors to discipline firms in the market. So in that context, 10 11 it seems to be structural remedies are at least 12 presumptively superior to conduct remedies. Okav. 13 There are four purposes for a remedy in 14 antitrust. One is compensation, rarely used for 15 equitable remedies although you can have restitution 16 or something. One is to stop the illegal conduct. 17 That's fairly straightforward. The third is to prevent the recurrence of the illegal conduct, and 18 that raises often a very difficult question of the 19 level of generality of extraction at which you want to 20 21 describe the wrongdoing. 22 So was the wrongdoing in Microsoft doing in

22 So was the wrongdoing in Microsoft doing in 23 competing browsers? Was it doing in middleware 24 alternatives? Was it doing away with any kind of 25 platform software with APIs, or any operating system

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1 complements, any of which could by some, you know, 2 logic have been seen as facilitators of competing 3 operating systems? So that was a difficult issue if the 4 5 Government had gone in that way in its initial б The guts of the initial proposal, however, proposal. 7 was addressed to a different remedial purpose, which 8 is restoring competition that was damaged by the 9 conduct found to be legal. So the theory of the divestiture remedy was not that the operating systems' 10 11 motives or incentives would be different if there were 12 a divestiture but that the owner of Office would have a different incentive to license and port Office to 13 14 competing operating systems rather than refrain from 15 doing so for fear that those operating systems would 16 grow into competitive threats to Microsoft.

17 So I think it was conceptually a coherent and sensible remedy addressed to the idea that entry 18 barriers had been raised by Microsoft and we were now 19 looking for a strategy to lower them. The problem is 20 21 that no one knew the facts. We didn't know what would 22 happen if there were a divestiture, and we didn't have 23 any clue about the costs of breaking up Microsoft in 24 that way.

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We had some outside experts who opined, but

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1 what we didn't have was discovery. And, frankly, I 2 think the judge -- and maybe Leah's right -- was just tired at the end of all this. The judge's peremptory 3 decision to enter the order and order divestiture 4 5 without discovery, without any kind of process was just an outrage in my view, completely inexcusable. б 7 But I don't think we should lose sight of the fact 8 that there was a conceptually coherent remedy story in 9 that proposed divestiture.

10 MR. WU: Go ahead.

MR. RUBINFELD: I just want to add, I agree 11 12 with everything Doug said, perhaps not surprisingly. I just want to add a couple other things to that. 13 14 First of all, I actually do think there is a role for conduct remedies in general. And there was a small 15 16 role here, but this is one case where, in my view, a 17 structural remedy was essential for some of the reasons Doug described. 18

And I spent a lot of time 20 years ago thinking along with quite a few others about exactly what would happen if we imposed this aggressive structural remedy, and I came to the belief that we would see, as Doug suggested, the apps folks who had a strong office suite looking to contract with other operating systems. It's not all that hard to generate

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an operating system. The hard part is finding the
 apps that would support it. So I actually felt
 strongly at the time we would see new competition, and
 the remedy had some appeal.

5 Like Doug, I was disappointed actually and 6 regret perhaps not being more outspoken about the need 7 to ask Judge Jackson to listen to our plan for 8 extensive discovery on the remedies. We did have 9 several experts. There were two economists, one of 10 whom just won a Nobel prize, who were prepared to 11 testify about exactly what would happen in that world.

12 And I believe that the concern about having 13 complementary assets -- the advantage of having 14 complementary assets within a single firm would not be 15 lost with the remedy that had the firm broken up. I 16 thought there were contractual solutions to that which 17 would work quite effectively. But we never got to hear that discovery and I think that was unfortunate. 18 19 MR. ADKINSON: Leah and Tim?

20 MS. BRANNON: Sure, I just figured I'd touch 21 on the consent decree briefly since that's the remedy 22 we all got stuck with. It was a really weak, bad 23 decree, but I think it was important, and maybe it 24 goes to Tim's point about the policeman. But I think 25 it also -- it meant Microsoft had -- it had violated

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1 the antitrust laws. It had a track record. So this 2 was -- the consent decree was no longer the baseline 3 antitrust laws. It was an additional layer on top of that, taking into account the fact that Microsoft had 4 5 cut off the air supply of its competitors, it had 6 affirmatively misled Java developers in order to 7 maintain its monopoly, and so it got the DOJ, the 8 states, the technical committee all looking over it, 9 and also, of course, the European Commission. 10 But I do think the decree played an 11 important role in the growth of a new generation of 12 platforms. I think, you know, the new generation of 13 companies read the case, they read the Microsoft case, and, you know, they read the decree to understand what 14 15 protections they had, but I think they also read it, 16 you know, to understand where the rules of competition 17 I think the case showed the importance of are. focusing on building better products and different 18 companies really focused on the user and delivering a 19 better experience. That is competition on the merits, 20 21 and that should come through. 22 So I think it created guidelines for a whole 23 new group of companies and it also meant that

Microsoft could not go back to using the same tactics that it had been using. So as badly written as that 25

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1 decree was, I think the whole process was meaningful. 2 MR. WU: Yes. So let me speak a little bit 3 about the policeman at the elbow theory because I think it's sort of overlooked sometimes because it's 4 5 so informal. But I do think if you look at the -б carefully at the history after Microsoft and some --7 also some of what happened during the IBM case, you 8 know, you have remedies that were not what we would 9 usually call -- I mean, they were conduct remedies in a way, but I think the most important factor was that 10 11 they offered a credible threat of the antitrust 12 litigation starting again, or the idea that you were 13 being watched, on parole, as you put it.

14 And I think that the fact that Microsoft 15 changed its conduct and didn't engage in some of what 16 would be the most obvious uses of its Explorer 17 monopoly is important. You know, it had -- as I said earlier, it managed to gain -- it wasn't -- it 18 succeeded in monopolizing the browser market and from 19 that vantage point had all sorts of opportunities to 20 21 do what had been its previous business practices, but it didn't, for various reasons. But mainly I think --22 23 I think that maybe it's not the only explanation, but 24 I think the most straightforward explanation is that it was afraid of restarting antitrust. 25

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1 So I think everyone, you know, in terms of 2 lessons from Microsoft, should be thinking about how 3 you create that policeman at the elbow effect, if you have a convicted lawbreaker, like Microsoft was. 4 Ι 5 like the separation -- sorry, the structural remedy 6 and the divestiture remedy for slightly different 7 reasons, maybe a little disconnected from antitrust 8 but having to do with innovation policy. You know, 9 I've said earlier, stressed earlier, that the history of innovation in the United States is often in the 10 11 tech industries. It's centered on platforms and 12 successful platforms. I don't deny that sometimes 13 integration can be part of that.

14 But one thing I think you saw after 15 Microsoft, sort of the failure of the Microsoft case, 16 is you continued with the situation where the 17 operating system was basically in the view of industry and in the view of investors and entrepreneurs, a 18 hopeless place to innovate, a dangerous place. And so 19 you never really had until much, much later the birth 20 21 of serious competitors to the office suite and even 22 much, much later serious competitors to Explorer. 23 Now they showed up eventually, I think 24 thanks to the good work of the Microsoft case, in

making the browser itself an important platform that

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people innovated on. But you did have this -- I don't know whether you call it dead weight or lost years where we were all presented with Word as the only option for a very long, long time. And I realize that didn't necessarily connect exactly to the reason for bringing the Microsoft case but I think ended up being important.

8 MR. ADKINSON: Thanks. I want to pose one 9 last question for a quick response, and it's one about 10 more broadly the impact of the Microsoft case, and 11 Tim's discussion of the elbow effect is certainly one 12 striking example of it.

13 To what extent did the Government action apart from the relief awarded inhibit Microsoft from 14 15 using its market power? To what extent did the case 16 advance Section 2 law in ways help deter exclusionary 17 conduct by dominant IT firms in the future? And did 18 the case compare or complement the legal actions 19 either by the E.U. or by the private lawsuits? And how has this affected subsequent developments in the 20 21 IT industry.

22 Doug, do you want to --

23 MR. MELAMED: Well, okay. It seemed to me 24 that there were two problems the case was addressing. 25 One was the Microsoft problem. What do you do about

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1 desktop operating system competition, and I think a
2 lot of people bought that that train pretty much left
3 the station in terms of at least the browser as the
4 facilitator.

5 And the other was the antitrust problem, б which is what are we going do to make the antitrust 7 laws effective as a policeman, if not at the elbow, at 8 least, you know, up in the sky watching Microsoft and 9 other big firms. And I thought at the time and continue to think that the most important contribution 10 11 of the Microsoft case was on the latter point as a law 12 clarification and law revitalization success.

And I leave it to those who know more about the tech industry than I to argue whether the remedy actually was material to subsequent developments in technical competition.

MR. ADKINSON: Thanks. We have about aminute more if other people want to --

MS. CREIGHTON: Just I wanted to agree with Doug and Leah about the importance of the decision as a precedential guide. I think that was really quite important because it can be lost that it's important to be able to give practicing lawyers a clear roadmap about what works and what doesn't work when they're advising companies.

1 And I thought an important part of 2 Microsoft's success was doing that, that's it's been a 3 clear benchmark for us. 4 MR. RUBINFELD: I was just going to add one 5 thing. For me, there was an important lesson for б people who do get involved in these investigations. 7 The economists and the lawyers worked together from beginning to end, and we all agreed that economic 8 9 theory, wonderful as it is, only gets you halfway there. You really need to apply the theory to the 10 11 facts of the case from day one, and that's what we 12 did. 13 MR. ADKINSON: Thanks very much. We now have, I think, maybe a minute and a half left for our 14 15 closing statements. I think Tim and Leah may have 16 started theirs based on what I earlier said, but I 17 would ask each panelist to keep the closing remarks 18 short, please, and starting with Tim. 19 MR. WU: Oh, starting with me. So I think I did actually start on it, which is I do believe that 20 21 it's important to take the 100,000-foot view and think

22 about these big cases as broader parts of frankly 23 American tech and innovation policy. And, you know, I 24 think Microsoft was the third of what ultimately --25 although people disputed it at the time, ended up

1 being a very successful trilogy of big cases.

2 And I hope the lesson that the FTC takes and other antitrust enforcers take is one that does 3 4 prioritize the big view, that thinks of innovation 5 as working in long cycles, and thinks hard about 6 what it takes to provide those nudges or effective 7 supervision, policeman at the elbow and other effects 8 that have meant so much for the health of the American 9 economy.

10 I'll just add that I think a MS. BRANNON: 11 really important part of the case was the focus on 12 effect on competition and the fact that the plaintiff needs to meet a burden of showing harm to competition 13 14 at the outset. The court emphasized that Section 2 is 15 not about intent. Microsoft clearly had the intent to 16 crush its competitors, but what the court really 17 looked at was the effect of that conduct and some of the conduct also had that effect. So I think that 18 legacy with a focus on competitive effects is 19 important. 20

21 MR. PICKER: So I guess I want to echo what 22 Dan and Doug just said. I mean, I think that these 23 kinds of situations are incredibly complex and tricky, 24 and it means that there needs to be repeated iteration 25 between economics, law, and the facts. And I think Microsoft's an incredibly successful example of that. I do think that means that it's less about grand theories of antitrust. So we're sort of in the midst of a discussion about that, is consumer welfare good, bad. I can answer -- I can decide the Microsoft case without reaching that level. And I think that's probably the right way to go on that.

MS. CREIGHTON: Yeah, so I was going to go 8 9 to the 100,000-foot level, too, but maybe somewhat different from Tim, which is I think if you look over 10 11 the big benchmarks for people advising tech companies 12 and the tech industry, there was the Microsoft case, 13 which I've indicated obviously I think provided a 14 balance and coherent analytical framework, and conversely, there were the IBM peripherals cases, 15 16 which, you know, as Randy indicated, IBM won every 17 single one of those.

18 And so I think between the two of them, that has provided American technology with really a nice 19 framework about kind of what is permissible and what 20 21 isn't. And, you know, if you step back, kind of how 22 is American competition doing globally today, I'd say 23 you see a lot of American companies competing 24 intensely amongst each other, with a lot of other innovative companies, particularly in China. 25 You

know, there are certainly sectors where American
 companies are not in the lead. I think in China,
 they're probably leading artificial intelligence, for
 example, but American companies are probably in the
 lead on things like 5G.

6 So, you know, having been in the industry 7 for a long time, now, where do I see the kind of 8 sleepy complacency or bags over the head that I saw at 9 the time of the Wind Hill duopoly, and just, you know, by contrast, maybe somewhat differing and disagreeing 10 11 with Tim a little bit here, you know, I think during 12 that same 40-year period we've seen a lot more 13 intervention from Europe consistently and that, you know, sort of the interventionist trend has only 14 15 increased, I'd say, in recent years.

16 And during that same period, we've also seen 17 sort of a receding rather than increasing of the role of European technology companies generally. So for 18 19 those, I think, who'd be saying sort of that more is necessarily better, I think we'd need to -- you know, 20 21 sort of we should be having a more European style of 22 protecting edge companies, for example, even at the 23 cost of weakening productive integration of platform 24 competition.

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I think it would seem to me that the burden

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1 should be on those advocating for that kind of change 2 to show it's not reasonable to expect that in the 3 event they're successful we'd see an accompanying 4 diminution in American competitiveness as well. I'm struck by how often in 5 MR. MELAMED: this conversation we have referred to the unmeasurable 6 7 and the unobservable. No one knows what the price 8 effects were over the time that we've been talking 9 about. We talked about innovation, but no one really knows what innovation would have taken place but for 10 11 the wrongful conduct.

12 We talked about entry barriers, but no one 13 knows what the entry would have been. We talked about the unknown and so forth, the unknown competitors. 14 15 What's striking to me is that those who say antitrust 16 law can deal only with bread-and-butter price cases 17 where we have readily observable and measurable variables, I think are wrong. Microsoft demonstrates 18 that the basic principles of antitrust, is it a 19 conduct-efficiency-based or not, did it intend to 20 21 reduce the discipline of rivals in the future are 22 robust enough to deal with facts, even where we don't have some of the traditional observable variables. 23 24 MR. RUBINFELD: I'll just say I agree with 25 Doug absolutely. And thanks to Bill for doing a great

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First Version Competition and Consumer Protection in the 21st Century 10/16/2018 job moderating all of us. It wasn't easy. MR. ADKINSON: Well, thanks. This was a privilege, and please join me in thanking our panel. (Applause.) (End of Panel 3.) б

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1 PANEL 4: DO THE U.S. AND EUROPE TREAT COMPETITION 2 CASES INVOLVING PLATFORMS DIFFERENTLY? 3 MS. COPPOLA: Okay, everybody, I think we're 4 going to go ahead and get started. My name is Maria 5 Coppola. I am from the FTC. And this afternoon's 6 panel will look at the differences and similarities in 7 approach between the U.S. and the E.C. with respect to 8 platforms. It's a great pleasure to be here and to 9 have such tremendous panelists. I'm only moderating, but to the extent that I express views, they are my 10 11 own. 12 I'm going to very, very briefly introduce the speakers. Cristina Caffarra, to my right, is the 13 14 head of competition -- European competition for Charles River Associates. Simon Constantine is the 15 16 Director of Policy and International at the U.K. 17 Competition and Markets Authority. Nick Economides is a professor at NYU Stern School of Business. Nicolas 18 Petit is a professor at University of Liege. And I 19 think many of you know Josh Wright, who is a 20 21 university professor here. 22 I'm being told to advance slides. These 23 are the complicated things I can never figure out. 24 So throughout the hearings we are thinking about international issues. We're talking to our 25

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1 counterparts in foreign authorities. We are clearly 2 engaging and consulting with experts from around the 3 globe, but this is the only panel, at least so far, that's really dedicated to comparative analysis. And 4 5 I think that reflects a little bit the fact that it's б awfully hard to have a conversation about platforms 7 these days, and in particular, I think, digital 8 platforms without Europe coming into the equation in 9 some way.

10 So we today will try very hard to go beyond 11 the headline that Europe is the only active enforcer 12 or Europe is overly aggressive and try to really think 13 about how Europe approaches these issues differently 14 from the U.S. and what we, at the FTC, might learn 15 from that as we go through a reflection process of our 16 own approach and tools.

17 I ask for a little bit of tolerance because we are covering, in one session, what will be covered 18 in six or more sessions to do the U.S. So we're going 19 to try to cover cases and look at things like market 20 21 definition, burden of proof, effects, et cetera, and 22 we're also going to try and think about how Europe is 23 reacting to the public disguiet around platforms --24 digital platforms. So we're going to really try to address a broad swath of issues. 25

1 The format will be like you've seen before. 2 Each speaker will make some initial remarks, and then 3 we'll have Q&A. My colleagues are collecting cards 4 with questions. Please start now. We welcome them, 5 and will turn to them shortly after the opening 6 presentations.

7 To kick off the platform, I started with 8 maybe a somewhat controversial idea, which is that 9 Europe tends to protect competition in platforms, by keeping pathways open for new competitors, new 10 11 business models, et cetera. And so I've asked each of 12 the speakers to react to sort of that premise and 13 their views on it and the pluses and minuses. And I'm 14 going to start with Simon Constantine.

MR. CONSTANTINE: Thank you, Maria and thank you to the FTC for inviting me here today. I guess I'm going to start by sort of taking my position as the regulator on the table to try and challenge some of the views or at least the cliched statements that are sometimes heard around the debate on these issues.

That said, I'll start with a bit of a cliche of my own, and the reason I use it is because it has the benefit of being true, and that's, you know, as regulators, we believe that the large platforms, you know, they provide a huge amount of consumer benefit;

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they provide benefits for businesses. And I think you'd struggle to find a regulator that would say differently. And while that may sound like a statement of the obvious, I think it's something that does occasionally get lost when we get into debates about levels of intervention.

7 Coming then to the cliches, I suppose, is the first is this idea of an E.U. approach and a 8 9 wholly different U.S. approach. While I think there are differences on both sides of the Channel, I 10 11 think there's a multiplicity of views within Europe and within the U.S. And I think actually there's 12 13 really -- when you look at the headlines, quite a lot that -- quite a lot of commonality really amongst some 14 of the -- about some of the general principles. 15 So 16 that's sort of the first.

17 And the second is what Maria just touched on, which is the idea of protecting competition 18 rather than consumers. Again, I think that sort of 19 accusation is rather misplaced. While it's true to 20 21 say that under E.U. law, for example, a company in a 22 dominant position has a responsibility not to distort 23 open competition, that idea of keeping open 24 competition is quite different from somehow seeking to 25 prop up inefficient and all the more so European

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1 rivals. The effect on the consumer is really, 2 personally I think, at the heart of everything we do. 3 If companies seek to distort that 4 competitive process by excluding rivals, then that is 5 depriving effectively consumers of the choice to 6 choose between the models that best serve their needs. 7 So, you know, this sort of totem of competitors and not consumers, I think, again, is rather too broad. 8 9 And, finally, sometimes that same argument finds another form, which is the idea that this is 10 11 some kind of anti-Americanism. Now, I can only speak 12 for what I see and observe, and within all my dealings 13 with people at the European Commission and elsewhere, I don't see any evidence of this. I mean, certainly 14 15 the large platforms that people are looking at, you 16 know, they are largely American, but, I mean, I think to turn this into a debate about the nationality of 17 any particular company rather ignores the sort of 18 genuine questions that are being asked throughout the 19 world and, you know, publicly as well as in antitrust 20 21 circles about, you know, for all their benefits, what 22 are the longer term effects and implications on consumers of some of these large platforms. 23 Those discussions, which we're having now 24 25 about platforms, we equally have about our energy

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1 companies, our banks, grocery stores, none of whom, in 2 the U.K. at least, are American. Really, these are 3 all E.U. and U.K. businesses. So I think to bring it 4 down to some principle of nationality is a bit 5 simplistic.

6 So, then, as Maria said, sort of broadening 7 it out a bit and sort of thinking about, you know, what's the role for antitrust, then, in these areas, I 8 9 think it's right to say that antitrust shouldn't make up for failings in other laws. So whether it be data 10 protection law or consumer protection law, if there 11 12 are issues with those laws, then I think your starting 13 point should be to address those issues rather than 14 somehow seeking to extend antitrust law to areas where 15 it shouldn't really tread, as it were.

16 But I don't think that's the same as sort of 17 saying somehow that antitrust should just step back entirely or that when you're looking at issues of data 18 and privacy that antitrust law is somehow completely 19 irrelevant, competition issues aren't relevant. 20 Ι 21 mean, on the one hand, it's quite possible and indeed 22 one might hope that the level of privacy protection 23 that a company offers might be a metric on which it 24 seeks to compete.

Sir

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Similarly, you can envisage a situation in

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which a company might use its acquired data or the data sort of gathers from consumers to either increase barriers to entry or to potentially exploit consumers who are less able to switch than others, for example. And to me, it seems like these are absolutely the areas for antitrust to be considering.

7 So then you come on to the question of, 8 well, are the laws right for dealing with the problem 9 if there is an antitrust question here. I think we heard it earlier from Randy who was saying, you know, 10 11 at heart, the broad principles when you apply them to 12 the fact, very robust and flexible. I think that's 13 quite different from saying that we shouldn't ask 14 ourselves some pretty tough questions about whether laws are in need of some kind of refresh here. But I 15 16 do think that the underlying principles have proven to 17 be quite successful.

And then you come on to the final part, and 18 I'll just touch on this briefly before wrapping up, is 19 looking at what the role of regulation is here. 20 I and 21 my colleagues, I think, we remain of the view that 22 competition generally remains the best way of driving beneficial long-term outcomes for consumers. 23 But T 24 think when you look at regulation, and to borrow the 25 terminology of our chief executive, I think we have to

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1 be -- we have taken more of an agnostic approach, I 2 think, to whether regulation may in certain 3 circumstances actually drive better outcomes for 4 consumers done at post-enforcement. 5 There may be areas where anti -- sort of 6 traditional competition or open competition in a 7 market may not drive really well-functioning markets 8 or may not -- the law may not stretch and extend so 9 One might look, for example, at asymmetries in well. bargaining power between companies, circumstances 10 11 which if it were between a consumer and a business 12 might be considered unfair between a large platform 13 and a small to medium business. Do we need laws to 14 cover those? 15 Now, the antitrust laws themselves don't 16 necessarily go there. You might on occasion need 17 regulation in the U.K. For example, in the grocery 18 sector, we've seen specific regulation to address that 19 market failure. So I think that while obviously any regulation should be targeted, proportionate, 20 21 especially designed to ensure that it doesn't somehow

22 sort of fossilize incumbency or impose excessive
23 burdens on small players rather than large ones, I
24 think that even with those caveats one can definitely
25 see here that it may be through a blended approach of

1 both regulation and effective enforcement of the 2 antitrust laws we might get the best outcome for the 3 consumers. Thanks, Simon, including to 4 MS. COPPOLA: 5 remind us about all we do have in common, and I think I may have focused a little bit more on the 6 7 differences, forgetting that the vast majority of 8 areas we are very much aligned. 9 I'd like to hear from Nicolas. 10 MR. PETIT: Thank you, Maria. And thanks to 11 the FTC for the invitation and more generally for 12 reaching out to the global antitrust community and 13 beyond to talk about this hugely important issue. 14 So I really want to make three points. The 15 first one is that it is wrong to search guidance in 16 European competition policy for sort of antitrust 17 hipster or new brandized counterrevolution. So some 18 in the U.S. talk a lot about structural dominance or they suggest when they talk about that that, you know, 19 we have a sort of tradition of ordo-liberalisms that 20 21 can provide quidance. This is not serious. 22 In unilateral conduct cases, we have some case law which suggests that indeed dominant firms 23 24 have a special responsibility not to impede 25 competition. That case law subjects dominant firms to

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1 very strict constraints, asymmetrical behavioral 2 obligations. But the problem is that this case law 3 has sort of been recast by the European courts of 4 justice last year in the judgment in Intel where it 5 explicitly said that an empirical assessment of 6 economic effects should guide the analysis of 7 anticompetitive conduct. So that's really sort of, you know, the 8 9 first cliche that I wanted to debunk here, which is that there is no such thing as sort of ordo-liberal 10 11 thinking in European competition policy, and there's 12 nothing to see there if you want to think about the future of U.S. antitrust. 13 14 The second point that I really want to make 15 is that European competition policy can be better 16 described as sort of experimentalist policy rather 17 than a structuralist policy in the tech sector and the high-level idea that European competition law is less 18 risk-averse in situations of uncertainty. 19 So antitrust cases can be started in situations of 20 21 imperfect information, emergent behavior and in clear judicial precedence. 22 23 This sometimes leads the European Commission

This sometimes leads the European Commission to adopt a precautionary approach to antitrust policy, especially in abuse of dominance cases. A member on

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1 other panel, Doug Melamed, said a more probabilistic 2 approach to antitrust enforcement, and we really can 3 see that. And that actually owes to a range of sort 4 of endogenous European idiosyncrasies. 5 Just to run you through a few of them, the 6 standards of evidence that we have in conduct cases 7 are quite flexible. The case law does not require proof of actual anticompetitive effects. 8 There's 9 less reliance on quantifiable estimation of harm. Plaintiffs must generally show capability of 10 11 anticompetitive effects. The standard that we apply 12 is a totality of the circumstances standard to 13 evidence.

14 Another factor which, you know, could sort 15 of mislead external observers into thinking about 16 European competition policy is that there is probably 17 less vice in Europe in the tendency of markets to self-correct and probably more trust in government and 18 in the ability of government to correct and improve 19 market outcomes. That means that the agencies are 20 21 actually looking at type one and type two errors, 22 maybe in a more balanced way than the agencies or plaintiffs look at them here in the U.S. 23 Judicial review is less intensive over 24

24 Judicial review is less intensive over 25 economic assessments. We have sort of -- well, maybe

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I'm just mischaracterizing U.S. law, but we have sort of Chevron deference in the area of antitrust in the E.U., and that also has a lot of impact on how the agencies can feel confident or not in bringing those complicated cases against large corporations.

б And maybe last but not least, distributional 7 choices are more legitimate or easy to sort of think 8 about in antitrust in Europe. Remember that Article 9 102, our equivalent to Section 2, talks about the ability of dominant firms to unlawfully charge 10 11 excessive prices on buyers. So we have all those 12 features in the design of our system which make it 13 that maybe our antitrust policy is more experimental 14 and maybe more confident in going after cases in which 15 there is a lot of uncertainty.

So now to your -- really to the core of your question about, you know, trying to characterize the European tech policy in the platforms world, I think there's really three, say four, important policy messages to extract. And, again, that's really sort of a bird's-eye view because there's no sort of clear and formulated message in policy talking.

23 Message number one, tech policy is 24 essentially to be addressed through ex ante 25 regulation. GDPR is the obvious case, but that's not

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1 all. I mean, platform cases in Europe, they are often 2 followed or seconded by regulatory propositions, and 3 they seem to sort of position antitrust enforcement as a fact-finding exercise or as a regulatory 4 5 kickstarter, like, you know, putting pressure on б regulators to think about bigger solutions. 7 So you can think about illustrations. Ι 8 mean, you know, proposals to introduce a general 9 platform regulation in tech to ensure sort of, you know, rights of redress to developers and trust and 10 11 transparency, the tax on revenues from digital 12 activities, initiatives taken in the area of 13 copyrights. So all those things sort of show that there's a sort of, you know, big regulatory campaign 14 in the area of tech and we should not surely miss 15 16 that.

17 Message number two, the long game of the European tech policy seems to be -- so, again, this is 18 not really explicit -- but it seems to be to protect 19 players active in the content development segments of 20 21 the markets. I'm thinking here about artists, publishers, developers, vendors and so on and so 22 23 forth. And, again, this can be seen if you combine platform-adverse antitrust enforcement initiatives 24 25 together with all sorts of regulatory proposals, you

1 know, net neutrality, copyright reform, online

2 platform regulation.

3 You can tie this to sort of political 4 economy considerations. Remember, you know, we hear a 5 lot when in the U.S. that Europe has no tech б companies. The two main tech power players in Europe 7 as are more in the content segment of the market, you're talking about Spotify and Deezer. 8 The publishing industry has a lot of clout in Brussels, 9 so, you know, if you think about tech policy, I'd say 10 11 think about content. That's probably where there is a 12 lot of faction.

13 Message number three, trust matters. Tech 14 platforms must honor the trust placed by third parties 15 placed in them, and, if not, they might risk antitrust 16 exposure. The two Google cases, shopping and Android, 17 that we have seen in the past three years really show 18 that -- or sort of stand to imply that it's bad for, you know, Google to rig internet search results and 19 not provide search results that users are expecting to 20 21 have based on relevance only. And Google Android has a bit of that spin as well, where policy messages have 22 23 been made that, you know, Google was not really 24 selling an open-source operating system and that was 25 wrong.

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1 So the fourth message, and I'll close here, 2 and that ties to the previous discussion in the 3 previous panel, it seems fair to say that the European Commission puts emphasis on intraplatform competition 4 5 maybe more than interplatform competition. And so 6 this is very clear in the shopping case. It's really 7 about protecting comparison shopping websites. It's a little less clear in the Android case because there is 8 9 some saying in the press release that the European Commission is also trying to protect competition 10 11 search engines. Not too sure about that, but clearly 12 an emphasis on intraplatform competition. Thank you. 13 MS. COPPOLA: Thanks very much, Nicolas. I 14 note that there's a lot of different interpretations 15 of Intel, and I applaud yours but note that it's one

16 of many and has been a source of controversy -- at
17 least it seems so -- among the enforcers.

I'm also glad that you referenced the
previous panel. I don't know about others, but when I
was listening, it sounded very much like they were
talking about European competition law today when they
were talking about Microsoft. And that was a really
kind of interesting perspective.

And, finally, on the point of ex ante regulation, I hope you and others will weigh in a

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1 little bit today on the proposed platform regulation

2 in Europe.

3 Okay, so now we have Nick, who I think is4 going to do a deep dive into a recent case.

5 MR. ECONOMIDES: Thank you very much. Okay, 6 so I'll talk about dominance and tying in the Android 7 case in the European Union. Just to be sure that we 8 are on the same page, the Android operating system is 9 an off-the-shelf operating system that an OEM can 10 freely install on a cell phone or other computing 11 devices.

And Google Mobile Services is a collection 12 13 or a bundle of applications including Google Play, 14 Google Search, Google Chrome and others. And all 15 these applications, of course, are complementary to 16 the Android. And there are a number of third-party 17 apps competing with the apps of GMS. Google Play is a crucial application, very desirable to manufacturers 18 because it's an application that allows search, 19 purchase, download, update, and so on. 20

Essentially, what Google offered to the OEMs is to choose whether or not to install the whole collection of GMS. So if the OEM installs GMS, Google's contract obligates the OEM to preinstall all the apps in the GMS bundle; therefore, Google Play is

1 contractually tied to other apps in GMS, including

2 Google Search and Chrome.

3 Additionally, Google wants the OEM to preinstall Google Search as a default search engine 4 5 if it accepts GMS and also to preinstall Chrome. б Additionally, an additional requirement is not to 7 preinstall apps that compete with GMS apps in any 8 other device. So if I'm Samsung and I make 25 devices 9 and I accept the GMS in one, I have to accept it in all and not install competing apps to GMS in any of 10 11 the 25 devices.

12 So the European Union complaint came in April '16. It's what Americans would call abuse of 13 14 dominance. There was a similar complaint in Russia, 15 and among other facts there besides the very big 16 market share, so Google Play, Google Search and GMS, 17 is the fact that Google paid the OEMs to exclusively 18 preinstall Google Search under the condition that no third-party search will be -- other third-party search 19 could be preinstalled. 20

21 Okay. So it appears that Google's strategy 22 is to protect and strengthen Google's dominant 23 position in the general internet search and adversely 24 affect competition in the market for mobile browsers. 25 The European Union wrote in the complaint that in their opinion the antifragmentation agreement, which was to not preinstall apps that compete with GMS apps, is not objectively justified. And there is some outside research that says that Google pays \$12.85 per phone to Apple to make it the -- to make Google the search default.

7 Now, is there harm? What are the 8 allegations of harm? First that consumers are harmed 9 because they have less choice in browsers and search in general; that there is going to be less third-party 10 11 entry into apps so that innovation is harmed; that 12 competition is harmed because of fewer third-party 13 apps; and, again, in American terms, we would be 14 saying something very similar to the allegation 15 against Microsoft, that the bundling GMS strategy 16 preserves and enhances the dominance of Google Search.

17 Okay, so what were the theories of harm that were proposed by the European Union? Theory one, that 18 Google is better off and search rivals are worse off 19 under tying. Consumers and competitions are harmed 20 21 through tying. Theory two, consumers are harmed 22 because tying left them with less choice. Theory 23 three, innovation was harmed since fewer third-party 24 apps were developed. Theory four, tying of Google 25 Search with the very desirable, as we said before,

Google Play is used to enhance and preserve the
 monopoly of Google Search.

3 So in some way, this case is similar to 4 Microsoft. The dominant company, Google, forces 5 acceptance of Google Search through tying with Google б Play, similar to Microsoft tying Media Player with the 7 operating system in Europe. Additionally, dominant 8 company Google enhances and preserves the monopoly in 9 search through tying, very similar to the Microsoft case of Internet Explorer tied with the operating 10 11 system.

12 What has Google -- what have been Google's 13 defenses? One, that consumers can easily download 14 other browsers, so the default doesn't have a lasting 15 effect. This is, in my opinion, a factual or 16 empirically testable hypothesis that can be proven or 17 disproven.

The second defense of Google has been that the present world is the only way to make money in this ecosystem. Again, this is testable, in my opinion unlikely, because Google has been very successful in PCs, in search, without tying to anything.

The third defense is that the OEM has the option not to install GMS, which is true, but not

1 relevant because the tying happens once GMS is 2 installed and, therefore, you know, what happens when 3 GMS is not installed is totally irrelevant. 4 Okay. So what happened in the case, they do 5 fine Google 4.3 billion Euros in July '18, and the 6 main three points that the European Union underlined 7 in its press release -- and we have not, 8 unfortunately, seen publicly the whole decision. The 9 three points were, one, that Google has required manufacturers to preinstall Google Search, App, and 10 Browser (Chrome) as a condition for licensing Google 11 12 App Store, the so-called Play Store, one. 13 Two, it made payments to large manufacturers of mobile networks to condition and exclusively 14 preinstall Google Search to -- in their devices. And 15 16 number three, it prevented manufacturers wishing to 17 preinstall Google Apps from selling even a single smart mobile device running an alternative version of 18 Android that was not approved by Google, so-called 19 Android forks. 20 21 Okay. So remedies. The most likely minimum 22 remedies are going to be that Google will have to 23 untie the Play from Google Search and the Chrome

25 for exclusivity, and there is some evidence that

24

browser.

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Second, that Google has to stop paying OEMs

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1 Google has already stopped doing that. And, three, 2 Google cannot stop an OEM from selling devices with 3 Android forks, even if the OEM uses Play in some devices. 4 5 So this is more or less where we are. б Today, Google has also announced that it will -- it 7 has announced remedies like the ones I just mentioned. And it has said that it will start charging for use of 8 9 Google Play. So at the end of this picture, after looking at this, one gets the feeling that Google has 10 11 snookered the regulators, especially the U.S. 12 regulators. The U.S. seem to have dropped the ball on 13 this issue.

14 Essentially, Google used an illegal tying 15 tactic to increase its market share to the detriment 16 of consumers and rivals for many years. It's very 17 possible that this will have lasting effects on 18 search, and the remedies that I have discussed before do not take care of that. And it's kind of an open 19 question whether there should be additional remedies. 20 21 Thank you.

22 MS. COPPOLA: Thank you, Nick. And I'm glad 23 that you had a chance to have a quick look at the 24 remedies that just came out today.

25 Next we'll hear from Josh Wright. Josh?

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1 MR. WRIGHT: Thank you. And I wanted to 2 cosign with my colleagues who have thanked the FTC for 3 putting this on, and I'm especially grateful that it 4 is here at George Mason. And I know I speak for the 5 law school and the GAI in saying we're pleased to be 6 participating in this debate.

7 So platforms, for a variety of reasons, and 8 I think spelled out by my colleagues on the panel, a 9 fun and hot and even maybe for antitrust terms anyway a sexy topic in antitrust. My job for the next seven 10 11 and a half minutes, I think, is going to be to make 12 the point that the differences that we really see in 13 U.S. and European antitrust treatment and Article 102 and Section 2 have little, if anything, to do with 14 platforminess I think was a word frequently invoked 15 16 yesterday. I really don't think the panels have much 17 to do with specific differences about platforms.

18 So in some ways, my goal for the next six minutes is to make the topic far less sexy than it 19 sounds, but I think I probably can get the job done. 20 21 I do think, and I'm glad that Simon started with the 22 proposition that there really are much more in the way of similarities here than differences. I think that's 23 24 an important place to start, whether it is 25 methodologically on basic principles of market

1	
1	definition or at least a statement that we are all
2	doing the consumer welfare standard.
3	I think now more or less everybody says
4	that, but I think sort of a layer beneath the
5	observation that we're sort of interested in harm to
6	competition and effects in doing consumer welfare,
7	there are some important I think I'll use the term
8	"methodological differences" that one can see sort of
9	stylized empirical regularities and decisions
10	involving single-firm conduct that come out of the
11	E.U. and the U.S. that I think are interesting and
12	important for discussion Some have already been
13	raised.
14	Nicolas raised the sort of emphasis on
15	intra- versus interplatform. I think the idea, the
16	importance of the role of judicial review as an
17	institution in single-firm conduct cases is obviously,
18	I think, incredibly important to determining how
19	regulators and courts behave sort of in the first
20	instance. But I think those subtle distinctions in
21	the way we talk about how to analyze single-firm
22	conduct cases are tremendously important. I just
23	don't think they come from platforms.
24	

25 features of platforms that end up being important in

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1 cases, right? We get -- and we have that in U.S. law 2 and some places whether one reads AmEx that way or the 3 DC Circuit's interpretation of Jefferson Parish as a 4 tying test for sort of integration of what would be 5 separate parts.

б So this is not to say that platforms don't 7 have some fun, unique special features for antitrust 8 analysis, but I think the difference is that we 9 observe in the types of cases that people are mentioning, so whether it's Google or Intel or what 10 11 have you, are really the same fundamental Section 2. 12 I remember way back when it was the Section 2/Article 13 82 debate over divergence between the U.S. and E.U. on single-firm conduct. 14

15 And there are a whole host of possible 16 explanations for those differences. I think Nicolas 17 mentioned some of these in his talk. These are sort of the standard menu of items for possible differences 18 -- different priors with respect to how frequently 19 tying or vertical integration or exclusive dealing is 20 21 anticompetitive. Those are topics upon which 22 economists, I think, have quite a bit to say. 23 Differences, whether ideological or cultural 24 or political or economic, on how one weights type one

25 versus type two errors, I think all of those are

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important, and we'll focus just on one difference that I think is important to invoke in these sorts of conversations.

And that is sort of a fundamental question 4 5 on when it is appropriate or optimal in the design of б antitrust standards, keeping open the idea that the 7 optimal standard might be different in different countries and different settings, but when it makes 8 9 sense to infer harm to competition from harm to a rival that is in large part my read of European 10 11 decisions is a greater propensity to infer harm to 12 competition from harm to a rival that has a place in U.S. law and sort of U.S. agency jurisprudence as 13 14 It's sort of more and more likely U.S. agencies well. and courts are to demand evidence of actual effects as 15 16 opposed to inferring likely effects from harm that can 17 be demonstrated to a rival.

18 I think I've got two minutes to go, maybe two and a half. So I will -- I did not plan on doing 19 this, but Nicholas said "snookered," and it got my 20 21 attention. So I left the FTC. I did not participate 22 in the Google case. I came a couple days after it 23 closed, maybe coincidentally. But I do object. I think we said we would sort of make an effort to 24 25 escape from cliched treatment of cases, and I think

1 the idea that the FTC got snookered or captured or 2 some such is a cliche that deserves to be abandoned. 3 At the agency, I think I set the record for 4 dissent over a seven-year term in three years. I can 5 tell you it's really hard to get five-nothing decisions. I tried to ruin lots of five-nothing 6 7 decisions. And it's very difficult to do. That is a 8 five-nothing decision, and I think the agency statement, which talks in part about my light's not 9 enough; I sure wish -- you know, this is the case 10 11 where the agency accidentally released a half-page of 12 the Bureau of Competition memo, you know, the one to 13 let go of, and I've said this in public before, the 14 Bureau of Economics memo that actually shows the work 15 that the agency did.

16 I think John Ewing is not in the room, but my colleague here, John Ewing, who was the staff 17 economist on that case, has a paper, it's up on SSRN. 18 Obviously can't talk about what the staff 19 did in that paper because the data are confidential, 20 21 but for those actually interested in what the agency 22 did in the case, I think it starts with reading that 23 paper and the FTC's closing statement. And the FTC 24 makes clear that what they relied on was they took the 25 theories of harm seriously, they tested them against

1 data and looked for actual effects, and they found the 2 evidence lacking using real economic evidence. 3 Now, could be the answer is you get a 4 different result in Europe than the U.S. I'm sort of 5 open to that. You could very well run sophisticated 6 analyses in both places and come to different answers. 7 I think that's a possibility. But I think we ought to 8 take the agency for its word in what it describes, 9 sort of what it did in those cases. So, that, I think, gets us a little bit closer actually talking 10 11 about what the standard of competitive harm is, what 12 evidence is sufficient to substantiate claims that there is harm to competition, when is harm to a rival 13 14 without showing an effect on competition sufficient to 15 substantiate such a claim. 16 There are lots of different views there, 17 some which I think can be resolved, some that can't. But I think talking about the work that the agency 18 actually did rather than talking about whether or not 19 it was snookered is probably a more fruitful avenue. 20 21 MS. COPPOLA: Thanks, Josh, and thanks for 22 reminding us, too, that we want to be thinking, to the

22 reminding us, too, that we want to be thinking, to the 23 extent that we can, about platforms as opposed to 24 simply single-firm conduct.

25 I think now I'll turn to Cristina.

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1 MS. CAFFARA: Thank you. And, again, my 2 thanks to you and to the FTC for the privilege of 3 being here today. I will touch inevitably on the 4 multiple themes that have been already touched upon by 5 other panelists. I'd like to give you a sense for 6 really what it is that may be different in Europe at 7 the moment, where the narrative is and where the 8 conversation is going, with the proviso I agree with Josh and others that we have a lot in common and any 9 differences is not specific to -- particularly to 10 11 digital platforms.

12 It is also true, though, that in the current 13 debate about enforcement around digital platforms is these differences are becoming amplified in the 14 15 discussion, inevitably turns, also, around them quite 16 In the spirit of disclosure, I work, of course a lot. 17 with Charles River. I have, in the past, advised third parties in the Microsoft case in Europe. 18 I have been involved for third parties also in the Google 19 shopping and Android case, but, of course, what I'm 20 21 going to say here is entirely my view and does not in any way represent that of other CRA colleagues. 22 Ι need to say that. 23

I also need to say that although when we talk about Europe, this is obviously a shortcut.

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1 Inevitably when we talk about Europe, digital 2 competition and European Commission are the center 3 stage, but it is important to sort of bear in mind 4 that there is a very diverse and, in my view, broader 5 environment of agencies at the national level that are б very active in the space. 7 Simon represents the U.K., we have the 8 French authority, the German authority, very influential, the Italians. So there is, in fact, a 9 broader narrative and a broader picture out there 10 11 which will collapse a little bit into simplification 12 when we talk about Europe as a single entity. Now, with that said, I think I would also 13 14 like to start with perhaps what is not necessarily a caricature but it is a description of what the 15 16 European position in these kind of cases is often 17 described as in conferences and in debates around policy. There is a sort of a description that 18 essentially goes, Europe is mainly protecting 19 competitors rather than, you know, that is the goal of 20 21 competition enforcement but protecting competitors 22 rather than anything else rather than consumer 23 welfare. We are pursuing fairness as an enforcement 24 goal as opposed to a more legitimate one of consumer 25 welfare again, and we have a host of other policy

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1 objectives, like digital single market. Nicolas 2 hinted at some sort of content support for local 3 content, which may be bundled up in some of the antitrust cases. 4 5 And, finally, there is also this driving 6 sentiment that there is tech envy in Europe. We don't 7 have our own Google, we don't have our own Silicon 8 Valley, we don't really produce these type giants for 9 There was an interesting article a host of reasons. in The Economist last week that explained the history. 10 11 We don't have unicorns in Continental Europe at the 12 moment. There are a couple in the U.K. but nothing to 13 challenge the U.S./Chinese sort of supremacy. 14 So all of that is the kind of narrative that 15 is often sort of put forward in these kind of 16 discussions. I want to pick up on a couple of 17 misconceptions, and this is my first one. The first one is really this notion that somehow Europe is 18 pursuing some other goal, some protection of 19 competitors as opposed to consumer welfare. I think 20 21 that is simply not true, nor is it true that in cases 22 like Google or Android there has been a protection of 23 competitors in preference of the notion of consumer welfare. 24

25

It has been mentioned before, there is no

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1 question that in Europe we have a special 2 responsibility, which is allocated in a dominant 3 company to not undermine competition. But the notion 4 of consumer welfare is very central to what Europeans 5 do and how they think about it. It's only a notion of consumer welfare which is not narrowly focused on 6 7 output and price, and the discussion about the boundaries of consumer welfare that sometimes one sort 8 9 of sees here seems puzzling to us because, for us, consumer welfare is very centrally price, output, 10 11 choice and innovation.

12 And I hear Josh when he says it is very 13 difficult to infer consumer harm from harm to a rival, I realize this is a discussion which is the core of 14 15 this, but if I think about what the previous panel 16 discussed, I mean, Doug Melamed talked about the 17 Microsoft case and very clearly said we took the view that in a probabilistic sense, markets in which you 18 have more competition, more active competition, tend 19 to favor more innovation rather than markets where we 20 21 just sat around a very strong monopoly and a dominant 22 firm.

And this is not a novel view. This is -- we have absolutely pursued back in Europe at the time of the Microsoft case, there was a big debate at the time

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1 from Microsoft, and I'm talking about the server case, 2 about being expropriated by intervention. Our 3 intellectual property is being expropriated. There will be a reduction in our incentive to innovate, 4 5 which was the response what about the overall incentive to innovate, what about implications for 6 7 competition and the overall effect on innovation in 8 its totality.

9 So I think that it is fair to say that we do not see any abuse around introduction of innovation. 10 11 There is no notion of an exclusionary innovation. 12 There is a notion that what is problematic is conduct 13 around innovation that may be tilting the playing And certainly in Google shopping the concern 14 field. was the discriminatory sort of way in which some of 15 16 the new features of the product appeared to have been 17 introduced is the objection that really carried weight 18 in Europe.

19 So this is the first, I think, misconception 20 that needs to be cleared up. We certainly pursue 21 consumer welfare, and we see innovation as being 22 central to that.

The second misconception is that somehow we don't know our economics in Europe. We're a little bit fluffy, we do these kind of theories of harm that

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1 are a little fluffy, and we don't really do them in a 2 tight way. We need to go back to school. Well, this 3 is an insult, because, you know, although there may be 4 some question around some of these theories, I think 5 that it is absolutely clear that any one of the б concerns that have been pursued in these cases as 7 being -- and can be expressed in a very standard, 8 Chicago-type model, dotting all the Is and crossing 9 all the Ts.

10 There's has been a lot of academic work 11 supporting, for example in the Android case, notions 12 of dynamic exclusion, dynamic foreclosure. There are 13 models that show static foreclosure. So I think this 14 is also sort of some notion that we do things because 15 we like strange ideas like self-preferencing is a 16 caricature of how things are really.

17 The next point, and I'll try and be brief, is, of course, this doesn't mean that the tool that 18 we use has no limitations. There are significant 19 limitations, particularly in thinking about Article 20 102 to pursue -- to pursue conduct in the case of 21 dominant firm. One -- and it will appear surprising 22 23 to some of you perhaps in light of the previous 24 discussion on the Microsoft case, is, in fact, the 25 Microsoft legacy in Europe.

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1 And when I say that, it is very much the 2 Microsoft server case that I'm talking about. The 3 reason is that good as that case absolutely was, it 4 has embedded and established a precedent which is the 5 one that everyone in Europe, but certainly the 6 European Commission, is very favorable to, the notion 7 that you build an anticompetitive story around 8 leveraging and around time. And so every single one 9 of these stories ends up being fashioned as a time 10 story.

11 And, now, this may well have merit in the 12 case of Android, I think it does. In the case of shopping, I think it's a bit of forcing the discussion 13 14 to describe that as a tie and see that there's a tie, 15 this type of vertical foreclosure case. But, you 16 know, what it means is that it may be a bit of a 17 straightjacket when we think about cases, because it means that everything needs to be fashioned in that 18 way, things couldn't get off the ground if they don't 19 have that structure. And that doesn't capture the 20 21 totality of the cases that we may be worried about or 22 tied to the circumstances that we maybe sort of faced. 23 Second limitation, which I think is very, very clear, is the nature of remedies. 24 In these 25 cases, we pursue a theory of harm, but how effective

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1 are really the remedies that we're able to put in 2 place? And there is a variety of reasons why these 3 remedies don't seem to be doing very well. I mean, 4 effectively, you say to a dominant company, off you 5 go, cease and desist, and come up with something 6 better.

7 And, in part, it is the asymmetry of 8 information between the regulator and the company. 9 There is very little ability to really drive what is going to be adopted. So I don't think it's a surprise 10 11 that the shopping case is delivering absolutely 12 nothing. It has generated a sort of emotional-type 13 mechanism, with all good intention, but no one --14 there is a monitoring process going on, but I think 15 there is great skepticism that this is doing anything 16 particularly worthwhile. And I think it's a 17 recognition on all sides.

18 So what is the purpose of these cases once we find a theory of harm if we really cannot put in 19 place a solution that makes a great deal of sense? 20 21 And I have to say we will see how it will play out, 22 but, of course, there is a possibility that Android 23 will also sort of remain in that kind of space. Do I have another couple of minutes? 24 25

MS. COPPOLA: Yes.

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1 MS. CAFFARA: Okay. So the third point I'd 2 like to make is that, okay, so these are the 3 limitations of the tool and we know them and we understand them. At the same time, I think it's very 4 5 important to understand also the kind of observation б that Europeans are making -- European regulators and 7 European observers. What is clear or what appears to us is that all this kind of awesome digital world that 8 9 we were expecting was going to unfold sort of before us in which, you know, there was going to be 10 11 leapfrogging every five minutes, people were 12 multihoming, people are just totally downloading 13 frictionlessly without any problem, it's not kind of 14 happening.

And there is a great deal of concentration in terms of bottlenecks and channels, often tension into limited, very big, very big giants, and that is a question that we are putting ourselves: Why do we observe this? Why are we observing these kind of much multifarious, multiwonderful world of changes? So that's -- that's an open question.

Another question is the fact that we observe acquisitions going on all the time, buying other small companies, and that may well be very legitimate, but there is also this question, are these killer

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1 acquisitions. There's papers all around looking at 2 this. There is the question of extending the position 3 in multiple adjacent markets, which is absolutely the 4 heart of the digital economy. Combining complements 5 is the thing. But, you know, what's the line between 6 that and some form of occupying a space or 7 foreclosure. Dual monopoly profit theory doesn't 8 necessarily work that well when you have a zero price 9 constraint. 10 And the big question, and I'll end on that, 11 is really what do we know about the effects of all of 12 this on the rate of innovation? This is the question 13 that empirically we don't have a good handle on, and it is to me at the absolute core of all of this. 14 Do 15 we know whether in all of this we see innovation sort 16 of thriving on the shoulders of giants, or do we see 17 it wilting in the shadow of giants? 18 There is very little that is actually done in this. I have seen Stipkin's (phonetic) studies 19

19 in this. I have seen Stipkin's (phonetic) studies 20 that he's -- something we shall see recently that sort 21 of looks at the rate of VC investment in startups and 22 looks at a specific segment, so internet retailing, 23 internet search, and social networks, and would appear 24 to suggest that this sort of -- the startup VC 25 investment in new companies in these segments is going

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1 down every single year.

If you take that literally, that would appear to suggest that there is perhaps not so much benefit to small companies innovating in the shadow of giants because there is not much funding, and whether that is because there is a fear of expropriation is unclear. But, of course, we need to look at funding for complements as well as substitutes.

9 So to say this is absolutely the core 10 question, which should be, of course, more research is 11 needed, but it is one that we should absolutely pursue 12 if we are going to be shaping the tools -- and I'll go 13 to the tools later -- in a way that is meaningful in 14 the future.

MS. COPPOLA: Thank you, Cristina. I have about a hundred questions, but before I start, and I have a few from the audience as well, did any of the panelists want to comment on any of the opening presentations?

No. Okay, well, I suppose I have one very quick question and then a series of longer questions. The first one is I think, you know, a lot of what we're talking about here is harm and what do we mean by harm and, you know, the link to the consumer welfare standard.

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1 Cristina, you talked about something that 2 was a little intriguing. You said conduct that 3 doesn't -- that's harmful but it doesn't neatly fit 4 into the Microsoft tying or bundling, just briefly, 5 what type of thing did you have in mind? б MS. CAFFARA: Well, I'm just saying that if 7 you think -- I mean, it's important that we think about the concerns that we might have, what are we 8 9 seeing and how that may look like a competition problem. In Europe, the problem is that you are, 10 11 then, having to try and fit that into the boxes of 12 tying, and not everything is a tie. That's the point. So if you think about -- if you think about 13 the concerns of, for example, publishers that Nicolas 14 mentioned, there isn't a tie. There is a concern 15 16 about traffic allocation and that might drive the 17 choice of business model in a way that perhaps doesn't fit in the underlying preferences of consumers but 18 reflect the preferences of the allocator. So how do 19 you fashion that into a theory of harm? 20 It's not a 21 tie. No one is tying anything with anything. So I'm 22 saying that, you know, that's one limitation that I 23 see in Europe in the ability to actually be effective 24 in designing a theory of harm that will get traction. 25 MS. COPPOLA: And we can think about whether

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some of these issues are better addressed by
 regulation in a minute. I just wanted to turn to
 Josh, actually. Cristina had suggested that the
 Europeans think about consumer welfare, but they
 include not just price and output but also choice and
 innovation.

7 I suppose there was sort of a subtext there 8 that maybe the U.S. antitrust authorities aren't 9 thinking as much about those. Did you want to reply 10 to that?

11 MR. WRIGHT: Sure. And not so much as a 12 reply to Cristina. I will defer to her description of 13 the European approach, for sure. It is sometimes raised, and I do think -- I think Cristina referred to 14 15 it as a caricature of the claim that Europe is not 16 doing consumer welfare. I think that's right. They 17 obviously are, and there are sometimes subtle differences in the way that we sort of weight 18 different types of evidence or different types of 19 theories. You will sometimes hear as part of that 20 21 discussion, well, the U.S. approach only does price and output and we're somehow, you know, sort of 22 blinded to innovation cases. 23

I don't think that's right either. I can think of a number of innovation cases, both in the

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1 merger context and the unilateral context, for sure, 2 that the FTC has brought. So I don't -- I don't think 3 that there is anything in either approach to consumer welfare that would prohibit either set of institutions 4 5 in the E.U. or U.S. from going after cases that involve theories of harm to innovation. 6 7 Again, I think there the differences are 8 more methodological than conceptual. The proof is in 9 the actual application of the concept to the evidence. What evidence substantiates some theory of harm, we 10 11 all read the same math models and can sketch out a 12 theory of dynamic foreclosure or harm to innovation or 13 harm to an edge provider or whatever else. We sort of 14 all kind can do the same models. 15 I think the question has much more to do

16 with what evidence is sufficient to substantiate those 17 claims. And there, I do think there is some 18 difference. I think there is more reticence in the U.S., and we can talk about whether this is a good or 19 bad thing, but some reticence to use models that are 20 commonly invoked in the theoretical IO literature but 21 22 sort of less often substantiated with empirical evidence. 23

I think there is more reluctance. I think there is certainly -- and Nicolas' comments to start

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with emphasized this -- I think there is certainly
more of a requirement in the U.S. to show actual
effects and a little bit more of a suspicion, over
likelihood effects -- over likely effects. That may
be a function of judicial review in some places; it
may not be. So that will be sort of one big
endogenous bundle.

But I think the way to think about which of 8 9 those approaches is superior almost has to get at outcomes, right? It has to get at trying to measure 10 11 performance in the actual marketplace, and that is a 12 place where I think the FTC has some comparative advantage in trying to -- these are really hard 13 14 questions, and we all have our favorite cases or 15 favorite examples of type one or type two error to 16 tell, but I think these are really hard, thorny 17 questions that require a lot more empirical evidence than they do theory. 18

19 Thanks, Josh. And I would MS. COPPOLA: just add to the evidence -- the evidentiary standards 20 21 are slightly different and also the burdens with the 22 agencies, where the burden lies, burden of proof. 23 Nicolas, you wanted to say something, I saw 24 you --25 Yeah, so I think there's -- I MR. PETIT:

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1 mean, there's probably not so much, you know, support 2 to the notion that you really need to bring a 3 categorized theory of liability to fly in an antitrust 4 case in Europe. And, actually, the decision of the 5 European Commission is very long. It's 220 pages б more, shows that the defendants said, Google said, 7 well, you have not shown me an essential facilities theory of liability, you have not shown me a sort of 8 9 duty to deal kind of story here, Commission, so you 10 have no case.

11 And the Commission said, and, you know, 12 rightly so on the -- precedence the Commission said, 13 and, you know, rightly so on the basis of judicial precedence, the Commission said, well, you know, 14 there's no laundry list of theories of liability on 15 16 which I have to rely once -- you know, pick one to run 17 This is open-ended. This is fluid. a case. 18

You know, views depend primarily on anticompetitive effects. So then the question is, you know, what Josh mentioned earlier, what kind of degree of -- anticompetitive nature of anticompetitive effects you can rely upon to bring Section 2/Article 102 case. And in Europe, the feeling seems to be, well, you know, capable is enough, and uncertainty is less of an obstacle to antitrust enforcement.

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2We have some questions from the audience3that I think are relevant, in particular for Nick, but4others should feel free to weigh in. And one is, how5serious of a consumer harm is it when the consumer6simply has to download a different search engine?7They have the benefit of preinstalled and they can8still choose a different one.9So this is getting at some aspects of the10Android case, obviously, not the entire case, but a11piece of it. So maybe, Nick, if you'd like to respond12to that.13MR. ECONOMIDES: Sure.14MS. COPPOLA: And maybe I'll ask the other15panelists to think a little bit about remedial16challenges in some of these digital platform cases and17we can have a discussion about that.18MR. ECONOMIDES: Sure. Well, first of all,19I should have said it from the beginning that I don't10have any particular company or entity that I work for21except NYU, and these are the only people who are22paying me to do this research.23The second thing I was going to say is that24I said the word "snookered" about the FTC. I didn't25say the word "captured." That's something that I	1	MS. COPPOLA: Thank you, Nicolas.
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1 don't want to say. This is more onerous implications 2 which I don't want to get involved with, and I don't 3 really believe it. 4 Coming down to this question, I am old 5 enough to remember exactly the same defense by Microsoft when there was the issue that Internet 6 7 Explorer was inside Windows and, you know, was that an 8 advantage to Microsoft or not. And Microsoft would 9 say, look, I mean, it takes one minute to download Netscape and anybody can download it. 10 11 Whether it's as easy as people say, it's an 12 empirical question, and I think at least my feeling, maybe I'm too old for cell phones, but my feeling is 13 14 that it's much harder to download a new browser on a 15 cell phone than it was to download a new browser under 16 Windows, or is under Windows. So it's an empirical 17 question. 18 I don't want to presume the full answer. This is something that anybody who brings a case and

19 This is something that anybody who brings a case and 20 anybody who argues a case should really specifically 21 look at. But even if the harm is small there, there 22 is an issue of the consumer not having readily all the 23 alternatives and ways in which companies with very 24 large market share, over 90 percent, have written 25 exclusive deals so that other browsers are not

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1 available or other search possibilities are not 2 available on cell phones. 3 MS. COPPOLA: Thanks so much. And, 4 actually, Simon wants to speak, but it is perfect 5 because I had a question. As Nick was speaking, I was 6 thinking about sort of the digital competence, the 7 technical competence that we have within our agencies. You -- I know the U.K. CMA is sort of making itself 8 9 digitally fit for the new age. So as you comment on what Nick has said, if you could bring in a little bit 10 11 about what your agency is doing in that respect. 12 MR. CONSTANTINE: Sure. Well, part of my 13 reason for wanting to speak was so that I didn't have to answer the question of how exactly you remedy these 14 15 issues, because I think it's a particularly difficult 16 one and inevitably will be, you know, something you 17 have to decide on the facts of each case. 18 Going to the original question about how easy or otherwise it is to download apps, I mean, I 19 think there is research that suggests that the only 20 21 area in which Bing has a significantly higher share 22 than Google Search is on Windows phones, where it is 23 preinstalled. And so, I mean, going to Nick's point about the empirics, I mean, I think you can admit we 24

all say it's quite easy to do. You know, even small

amounts of friction, I think, can be shown to really have quite a large impact on consumer behavior, particularly when you extrapolate it and multiply it across the millions of devices sold and the millions of interactions that we have with these devices. So that's that point.

7 I think Maria was asking about some digital expertise. 8 I think this is a key issue, as alluded to earlier, about the sort of information asymmetry that 9 exists between regulators and tech companies. And one 10 of the inherently -- because all of these cases are so 11 12 fact-specific, you really have to get into the weeds 13 of the case, and that requires us to understand how 14 these markets work. And taking our inspiration in 15 some ways from the FTC actually and their Office of 16 Technology, we've recently appointed head of digital 17 and are forming a data and technology and analytics team, which will be a sort of mix of not just the sort 18 of usual lawyers and economists that populate 19 antitrust authorities, but also data scientists, 20 21 analysts, and the like, and so really trying to 22 understand what the implications are of data, how we can use that data ourselves, how we can better assess 23 24 it, and then also looking at how one might use data. And this, I think, is an interesting 25

question perhaps to which to come back to in the
 future hearings, is how we can use data actually to
 drive better competition in the market.

MS. COPPOLA: Well, that's the topic of our November hearing, so in case you want to come back to Washington.

7 I don't know if others want to comment on 8 the remedial challenges or whether we want to turn to 9 regulation. I have a question from the audience and I 10 know we've had a few rounds of emails about 11 regulation, and so anyone want to comment on remedial 12 challenges or should we move to regulation? Okay.

13 So the question from the audience was, do you need sort of an identifiable market failure in 14 15 order to regulate ex ante regulation, and what are 16 sort of the costs and benefits as compared to case-by-17 case enforcement? And I think hopefully panelists will address that question, but also more broadly, you 18 know, what are the competition harms that we're 19 worried about that can't be addressed by antitrust 20 21 enforcement actions? And what would that regulation 22 look like? 23 Does anyone want to start?

24 MR. WRIGHT: I can do the first one, yes. 25 Yes, you need a market failure to have ex ante

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1 regulation. I'll let my copanelists do the heavy 2 lifting on the rest. 3 MS. COPPOLA: It might be one of your 4 students that submitted the question. 5 MR. WRIGHT: I would pay them for harder б questions. 7 Don't do it, guys. 8 MR. ECONOMIDES: I might say that I agree 9 I mean, this is -- when we're talking with Josh. about sector-specific regulation, we need -- we really 10 11 need to prove that antitrust doesn't work and there is 12 some sort of what we usually economists call market failure. One of the areas in which it seems that 13 14 there is a market failure and antitrust cannot fix the 15 problem is in the collection of data by companies such 16 as Facebook or Google or others, without payment. So 17 usually you would expect when some exchange happens that there is actually a price, but here the price is 18 -- has been set to zero. 19 So in my book that counts as a market 20 21 failure, and, there, we need to think seriously about 22 how to regulate that market and even create the 23 possibility of a real market there in which money 24 changes hands.

MS. COPPOLA: Thanks very much.

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1 Cristina.

2 MS. CAFFARA: I am happy to jump in. Well, 3 I would like again to give a sense for what is the 4 broader debate which is taking place in Europe now. Ι 5 think the question of whether we need to just -- we 6 need to default to regulation on how we think about 7 regulation in the event that we decide that the antitrust tool isn't sufficient I think is not quite 8 9 well put.

10 I think in Europe the debate at the moment 11 is very broad and very live about how we need to think 12 in a holistic sense about all of these tools and not 13 necessarily think about them sequentially or 14 separately. The initial discussion was, of course, 15 like everywhere, do we have the right tools in 16 antitrust and how should we somewhat sharpen them, 17 adapt them in this new world. And, you know, the standard answer that you got until fairly recently 18 was, we just have the tools. We have all of the 19 tools, we just need to prime and populate. And don't 20 21 lose your head, there's nothing to see. 22 And I think that that kind of certainty has

22 And I think that that kind of certainty has 23 become quite shaken by the notion that we observe 24 phenomena. I mentioned earlier that we are 25 questioning, why don't we see this kind of thing, a

1 seamless world of overtaking and leapfrogging, and why 2 don't we see these kind of phenomena sort of out 3 there.

4 So there is a sense that a broader approach 5 is needed, and this is not sort of a populistic, 6 extremist fringe that takes this view. This is kind 7 of mainstream at the moment in Europe, Jean Tirole just mentioned someone whose credentials are obvious, 8 9 and Nobel Prize has been talking about the necessity to rethink a bit the approach in these cases. 10 He's talking about participative antitrust as a potential 11 12 way to think about it. So no longer sort of a 13 prosecutorial but a way in which perhaps companies 14 could sit together and can come together and address 15 some of the issues.

16 There are bodies of very respected orthodox 17 academics in Europe, economists and lawyers, thinking 18 about how indeed the tool needs to be significantly abated. In Germany, you have this next-level 19 antitrust paper. You may or may not agree, but this 20 21 is very influential in the way we think about it. 22 There is the group of people advising the Commissioner 23 saying we just need to be less insular in the way we think about antitrust because we are kind of 24 25 constantly thinking about, do we have the tools, can

we sharpen them a little bit, we need to stop thinking of what the issues are and then thinking again about what the best tools are. Now, and then, of course, as you mentioned, there is, in fact, you know, an additional point. The

6 U.K. Treasury has launched a digital platform
7 initiative just to again try to identify the big
8 questions before we really think about the use of the
9 tools.

10 So I think as the initiative or regulation 11 is trundling through the European parliament, there 12 are various regulatory initiatives at the national 13 level. And I think that that is certainly going to 14 our head. It is going to fill any vacuum that 15 antitrust enforcement needs. One of the models that, you know, you hear people talking about is, well, 16 17 we've been dealing with, with telecom company in the past, we've adopted an end-to-end interconnectivity 18 19 approach, in which we mandated number portability, we mandated all sorts of axis regimes, and that's what 20 we've done. Why can't we find an equivalent in this 21 world? I think this is more than a question of 22 23 detail. It's very important. But just to say that I 24 think that discussion about instrument mix is super-25 live in Europe, and it isn't just about fiddling at

1 the edges with antitrust. It is a broader and more ambitious sort of... 2 3 MS. COPPOLA: It's interesting to think 4 about why some of the discussions in Europe are 5 different from those here, and whether there's kind of 6 a more openness to regulation. The discussion about 7 different tools had me thinking a little bit about the 8 U.K.'s power in their sector inquiries. 9 Do you want to weigh in on that at all, what that might look like for digital platforms or how your 10 11 experience might inform this kind of multidisciplinary 12 approach? 13 MR. CONSTANTINE: Yes, I mean, we in the U.K. have the benefit of sector market study powers 14 that not only allow us to look across a sector as a 15 16 whole, where the market may not be functioning well, 17 but also at the end of it allows us to impose remedies, orders that are quasi-regulatory remedies. 18 And I think in this sort of circumstance, that can be 19 a very powerful tool. 20 21 Both Nick and Josh talked about the need for 22 a market failure. I mean, I agree, and the markets 23 tool, I think, can achieve that. It's a two-year 24 investigation that really looks to understand how the

25 market is operating, what are the factors that are

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1 driving the assessment -- the way in which competition 2 is operating. And that -- so that allows you to look 3 at competition issues; it allows you to look at 4 consumer issues and then not have to try and shoehorn 5 things in through the very tight antitrust lens. б One might see in a recent banking study we 7 looked at where previous attempts to sort of make switching easier and the like haven't necessarily 8 9 worked, so we looked at the market again and actually have there introduced a remedy which brought forward 10 11 what's known as open banking, which is about allowing 12 people to port their data, their financial data from 13 one bank to another and engender competition that way. 14 So I think it allows you really take this detailed look at a market based on the evidence to 15 16 address it and thereby put in regulation that's really 17 sort of tailored to exactly the harms you're trying to 18 get at. Thanks, Simon. 19 MS. COPPOLA: You know,, the discussion we had earlier on 20 21 intra- versus interplatform, I was thinking about the 22 question a little bit from a slightly different 23 perspective. And that is should we in the U.S. be 24 more concerned about intraplatform competition? I keep hearing, say, well, you're this concerned about 25

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1 interplatform but I guess there's a different 2 question, which is is the U.S. sufficiently -- do we 3 pay sufficient attention to intraplatform competition? 4 Does anyone want to take that on? Yes. 5 So, yeah, just to come back on, MR. PETIT: б you know, the previous points which haven't been made 7 about what agencies should do in situations of 8 uncertainty, I think what they should do is, you know, 9 have a set of first principles to think about in certain markets. And I think one of those first 10 principles is to say, well, you know, we are going to 11 12 go to these markets if we see there is not enough 13 interplatform competition. We're going to look into 14 intraplatform competition, sort of, you know, kind of 15 reasoning that we've had in vertical restraints, in 16 Europe at least, for a long time.

17 And so your analysis of intraplatform competition becomes important and the scrutiny becomes 18 important if you feel that a market doesn't have 19 sufficient degree of interplatform competition. And 20 21 on that, it's often sort of, you know, difficult to 22 make that preliminary assessment because the question 23 is what is the platform you're talking about? So for instance if you take the 24 25 Google/Android case you could say, well, you know, the

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1 platform is search and there is not enough competition 2 because Google has, you know, between 90 and 100 3 percent market share. But at the same time, you can 4 only come to that reasoning if you've excluded from 5 your analysis Apple and its closed ecosystem from the б analysis. And you could say, you know, Apple's siloed 7 ecosystem is also a platform which competes with the platform of Google, which is search plus Android. 8

9 So it is a first question to ask. It's not 10 an easy question. Sometimes I think the tool of 11 antitrust, like market def, can be misleading in that 12 assessment.

13 MR. ECONOMIDES: I was going to say that, you know, an interesting issue of intraplatform 14 15 competition could arise in the distribution of -- the 16 distribution that is now dominated by Amazon when you 17 have some sellers that are selling directly to consumers and also selling through Amazon. So there, 18 there is at least a possibility of anticompetitive 19 effects in intraplatform competition. But, again, I 20 21 haven't studied this so I'm just discussing a 22 possibility of a platform where this might be looked 23 at. 24 MS. COPPOLA: Thank you.

25 We've got a couple of questions here from

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the audience, and I am also conscious that time is ticking and we're at the end of the day. So I'm going to ask both the questions at the same time. And when you think about your responses, also feel free to respond to the questions that have just been posed prior to this.

So one of them is, essentially, even if there's not specific cases, you know, are we seeing at least in terms of rhetoric a return to an ordo-liberal or structural approach to antitrust in Europe. Cristina is raising her eyebrows, so I have a feeling she may go first on that.

13 And the other one is, the panelists have 14 been asked to look ten years ahead and consider emerging technology, so algorithm AI, big data, et 15 16 cetera, et cetera. Can you comment on these new 17 theories of harm on the U.S. and the E.U. and the 18 outlook for these? And I suppose thinking in particular about platforms. That's quite a tall 19 order, so hopefully a couple of you can rise to the 20 21 occasion, but I understand if not everybody wants to. 22 So, Cristina, do you want to mention anything on the ordo-liberal? 23 24 MS. CAFFARA: Well, I feel called to respond 25 to this. Well, look, I mean, of course, there has

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1 been a history in Europe in which the sort of 2 traditional German ordo-liberal position has been in 3 effect looked at as somewhat of an oddity in the sense 4 that there's sort of the drive towards adoption of 5 consumer welfare, which has been overwhelming across б all other jurisdictions as being the prevailing one. 7 And in all of this, the German position, 8 although it has been influential in shaping 9 competition law in Europe in its beginnings, has inevitably -- had lost a little bit of traction and 10 11 indeed was not center stage. At this point, there are 12 voices that say in this discussion in which we are 13 worrying about these large giant companies, is it the case that we are seeing the ordo-liberal position kind 14 15 of rearing its head again. 16 Well, I suppose if you are in Germany, you 17 can feel quite vindicated by that discussion and take the view that somehow this sort of investigation of 18 Facebook is not something that is so eccentric after 19 I think that is sort of the more sober way of 20 all. 21 thinking about it is that we worry about a number of

things, and size is one of them, because it is not size, per se, but it is the fact that we don't see, once size has been achieved, a great deal of dynamism in the sense of challenging perhaps that kind of large

1 established position.

And it's going back to what I was saying 2 3 earlier. There is no sense that there is, at the 4 moment, any leapfrogging likely or any sort of change 5 in that sort of -- in that market structure that's before us. So it's that which is -- is that sort of 6 7 an ordo-liberal principle? No, it's that we are 8 worried about what we see, size and the fact that 9 there is clearly a number of -- a limited number of large players controlling attention in very limited 10 11 channels.

12 It raises a question, a question that we 13 need to address, not a return to ordo-liberalism, but 14 taking just the questions we need to address.

MS. COPPOLA: Well, I've just had another 15 16 question come in, that's probably slightly more 17 nuanced. If you have the structural ordo-liberal 18 approach here and then you have the effects here, the question is that the panelists, both this panel, 19 previous panel have sort of observed that European 20 21 enforcers might be more willing to or more comfortable facing enforcement on likely effects. 22 I mean, 23 certainly, the case law allows them to, and they may 24 have greater comport doing that, whereas in the U.S. 25 typically we focus on actual effects. And the

1 question is which approach is better for digital

2 platforms?

3 Would anyone like to comment on that? Nic? 4 MR. PETIT: Yeah, so, again, on first 5 principles, I think there's no reason to exclude as a б principle the ability for the agency to advance on a 7 capability or likely effects theory. But if you do 8 that, you need to -- so the first principle is you 9 need to provide symmetry to the defendant. And so you need to -- so if you are -- if you are in the game 10 11 where you are saying the effects are uncertain but we 12 qo for it, and this is -- you know, this is 13 probabilistic, as was said before, well, then, you 14 should allow the defendant to also say that there is 15 competition but it's probabilistic, so it's going to 16 hit somewhere, right?

We heard before people say, well, it's all make-believe, that, you know, those guys say, we have competitors but we don't know them. Well, maybe it's not. I mean, Schumpeter has written about that, you know, competition felt, the intensity of competition that you can't locate in a market, but it might be there somewhere.

And so I think when we think about its likely effects, we also need to provide the defendant

1 symmetry to advance probabilistic competition as a 2 defense. 3 MS. COPPOLA: Thank you. 4 Simon, I'll ask you to weigh in, and then I 5 think starting at the end with Josh, I'll ask 6 everybody to give their closing remarks in addressing 7 that ten years ahead question, if possible. 8 Go ahead, Simon. 9 MR. CONSTANTINE: Very good. Well, I will combine your third question and the ten years ahead 10 11 one, and so this can be my closing as necessary. But 12 I sort of think of this through the mergers lens is an interesting way of looking at it. And I caveat this 13 with the statement that, you know, I consider it a 14 15 success to have made it to the end of the day, so 16 looking ten years ahead I find quite difficult. 17 But sort of that aside, I think when -- I don't think when we're looking at, say, a merger of --18 involving the acquisition of a startup, we know 19 there's going to be a lot of discussion about that 20 21 tomorrow. You know, inevitably, there is going to be 22 a degree of uncertainty as to what the future might 23 hold, both with and absent the merger. And I think -- I do wonder whether sort of

And I think -- I do wonder whether sort of over time we have worried too much about over-

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1 enforcement, particularly if you have a number of 2 potential theories of harm, each of which is 3 relatively low likelihood, but, you know, the likelihood of one of them happening is rather higher, 4 5 and if it does, it's a very significant effect. 6 And I think the other thing about mergers, 7 and it goes to the second question about looking 8 ten years ahead, is that we see two aspects. One is 9 the -- what was described yesterday as horizontal expansion, so this is sort of really the stretching 10 11 out of the platforms into new markets. There's a lot 12 of talk about Fintech at the moment and how we can see 13 the traditional banks using new technology. Well, one can equally switch around to Techfin and see how it's 14 15 the traditional tech companies suddenly seeing that 16 there's a potential financial services market. 17 And the other element of that, I think, is when you look at where is the innovation happening. 18 And, you know, when you have increasingly sort of the 19 centers of innovation, the innovation poles, all being 20

21 located within a smaller and smaller number of 22 companies, then I think you do have to wonder how the 23 sort of Schumpeterian competition or whatever you want

24 to call it, where, in fact, that's going to come from.
25 MS. COPPOLA: Thank you.

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1 Josh. We'll just go down the table, yeah. 2 MR. WRIGHT: I'll go quick. I'm frankly not 3 totally positive this will answer the question, but 4 it's the thing I want to say at the end, so I'm going 5 to say it. So I think the principles and getting into 6 these cases where we kind of test the limits of our 7 predictive powers at the agency, whether that's two 8 years, five years, ten years, or what have you, there 9 are a couple of different ways to approach that conceptually. 10

11 And one is we could, I mean, we could stack 12 theories of harm and sort of add up the probabilities, but the defendant's got theories of efficiencies, too, 13 14 and if we stack them, we have two events with the 15 probability of one and that's hard math. So I think 16 the better approach is when we don't know, when we 17 have these theories and we sort of don't know and we 18 find ourselves with big confidence intervals around 19 our guesses, you know, one thing that the agency and I think the FTC is uniquely situated to do, is to try to 20 21 participate in competition policy R&D, go out and 22 identify important questions.

There's a bunch of young IO and labor economists around the world who need stuff to work on, and these are important questions where the theory to

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1 empiric ratio was, like, infinite. And I think that's 2 -- that means there's sort of fun and important work 3 to do, and people ought to do it, and I think the FTC 4 or competition agencies around the world identifying 5 it as an important area is a really important thing б that those agency can do. 7 MS. COPPOLA: I hear a lot of Bill Kovacic in those remarks, and I applaud them. Okay. 8 9 MR. ECONOMIDES: Can I say something about 10 the ten-year prediction? 11 MS. COPPOLA: Sure. 12 MR. ECONOMIDES: After all, it's the end, so 13 I might as well make a prediction. I think that if we 14 look at platforms, we have to look at the sectors that 15 have stayed behind and that are the most likely to 16 convert to platforms. And these are the health 17 sector, banks, payment systems, part of the banking world, and currencies. So within ten years, I'm 18 19 pretty sure that all of these are going to become platforms, going to be transformed by platforms, and 20 21 the companies that will not be able to get in, I mean, 22 to transform themselves, are going to have a very hard 23 time. 24 Let me say one last thing about it. And

Let me say one last thing about it. And that's I'm probably the most sure thing I am, is that

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1 the labor share of GDP is going to become smaller 2 because platforms use less labor. So this is 3 important. It is going to show up again and again. 4 It is going to show up first in the United States, 5 because platforms are very, very important here, and б we have to think of ways to -- we have to think of the 7 social consequence of this and ways to alleviate it. 8 Thank you. 9 MS. COPPOLA: Thank you. 10 Nicolas. 11 MR. PETIT: Yes, so ten years from now, what 12 we're going to see, I know what I'm seeing today is mushrooming of new theories of liability like copycat 13 14 innovation or acquisition for infanticide, also called 15 the Kronos effect by some after, you know, the Greek 16 titan who had this oracle prediction that he would be -- he would be killed by his son, so he basically ate 17 all his sons. So we are reading those the claims in 18 19 essays, newspapers. The press is an abundant purveyor of those theories. 20 21 And, you know, like Josh said, I think all that is science fiction for now. We'd like to 22

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23 probably promote some competition R&D in that space 24 and try to understand a little better before we jump 25 into the sort of Nostradamic predictions that the

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1 press advances. You know that all too well. I mean, 2 you know, good news don't sell, so why not throw in 3 there some theories of liability and harm and, you 4 know, just get away with it. 5 So I think we need to put economists and data scientists in a room and have them to look into 6 7 that seriously. 8 MS. COPPOLA: Thank you very much. 9 Cristina. Well, we are out of time, so I 10 MS. CAFFARA: 11 will not assault any predictions on the next ten 12 years. I'll just say a couple of words on one of the 13 last questions that was put, this notion again, which is coming up from the audience that somehow, and I 14 15 don't accept it as a characterization that is popular, 16 you know, the U.S. looks at actual effects and we in 17 Europe somehow speculate. And that is something which I find a little bit, again, a caricature. 18 19 Relative, too, for example, the panel we had 20 earlier, if you think about very much what was discussed on the panel, a very clear discussion about 21 22 Doug Melamed, Susan Creighton, very clear, that what 23 was at stake at the time was a prediction that 24 effectively the conduct of -- that was being looked at 25 was going to in prospective terms, in probabilistic

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1 terms, be likely to undermine innovation, which is 2 what we care about. 3 So exactly why are we not seeing that this sort of analysis has got to have some element of 4 5 probabilistic view, that more competition tends to mean more innovation? I don't think it's eccentric. 6 7 So I would just invite that as a reflection and indeed 8 end up on what I think is something we can all agree 9 on, which is Bill Kovacic's invitation to do more R&D in this space is absolutely the best way to end. 10 11 MS. COPPOLA: Thank you, Cristina. And 12 thank you to all of the panelists, a number of whom 13 came from very, very far to participate in these 14 hearings. We are enormously grateful, having your 15 participation in person is so meaningful. So thank 16 you very much, and if all of you would join me in 17 thanking the panelists. 18 (Applause.) (End of Panel 4.) 19 (End of Hearing 1.) 20 21 22

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