

UNITED STATES OF AMERICA

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FEDERAL COMMUNICATIONS COMMISSION

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EN BANC HEARING

+ + + + +

MONDAY,
OCTOBER 7, 2002

+ + + + +

445 12th STREET, S.W.
WASHINGTON, D.C. 20554

+ + + + +

2:00 P.M.

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COMMISSIONERS:

MICHAEL K. POWELL, CHAIRMAN
KATHLEEN ABERNATHY
MICHAEL COPPS
KEVIN MARTIN

FCC SECRETARY:

MARLENE DORTCH

PANELISTS:

SIMON WILKIE
Chief Economist, FCC

ROB GENSLER
Portfolio Manager, T. Rowe Price

ROBERT KONEFAL
Managing Director, CFG, Moody's Investors
Service

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PANELISTS: (cont'd)

BARRY NALEBUFF
Professor, Yale University School of
Management

HAL VARIAN
Dean of School of Information Management
and Systems, University of California,
Berkeley

KIM WALLACE
Managing Director and Chief Political
Analyst, Lehman Brothers

LARA WARNER
Director, Credit Suisse First Boston

LARRY WHITE
Professor of Economics, NYU Stern School
of Business

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P-R-O-C-E-E-D-I-N-G-S

(2:02 p.m.)

CHAIRMAN POWELL: Good afternoon. It's my pleasure to welcome you to this very important hearing en banc on the state of the telecommunications industry.

But before we get to opening remarks and other remarks, I'd like to turn it over to the Secretary, who can give us an outline of today's program and perhaps an overview of the rules we're going to follow for today's program.

Madam Secretary?

SECRETARY DORTCH: Good afternoon, Mr. Chairman, Commissioners, and invited panelists. Following are the procedures for today's en banc hearing. We will utilize a timekeeping machine located in front of Chairman Powell to maintain time limits on each presentation.

The first two panelists will each have a total of 12 minutes to make their individual presentation. The green light will signal for the first 11 minutes of your remarks. When the yellow light signals, you have one additional minute to sum up your presentation and close your remarks.

The third panelist will have 10 minutes

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1 to make your presentation. The green light will
2 signal for the first nine minutes of your remarks,
3 and when the yellow light signals you will have one
4 additional minute to sum up and close your remarks.

5 Finally, the remaining panelists will
6 each have seven minutes to present. The green
7 light will signal for the first six minutes of your
8 remarks. Again, when the yellow light signals, you
9 have one additional minute to sum up your
10 presentation and close your remarks.

11 For all panelists, the red light
12 signals the end of your allotted time. Please
13 conclude your remarks at that time.

14 Thank you.

15 CHAIRMAN POWELL: Thank you, Marlene.

16 Again, I want to thank everyone for
17 joining us today, especially my colleagues who are
18 here to discuss the financial state of the
19 telecommunications sector, and, more importantly,
20 steps that might be needed to try to restore its
21 financial health. And I'd also like to thank in
22 advance our distinguished panelists for joining us
23 today, all of them eminent in their own fields, and
24 we really look forward to the factual basis that
25 they'll provide us to give us something to think

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1 about as we struggle through these difficult times.

2 As I've said, we find ourselves in the
3 midst of some very difficult times in the telecom
4 industry, yet at the same time we find ourselves at
5 the point of great opportunity for the sector as
6 well. One of the primary missions of the
7 Commission in the short term is to do our part to
8 get us from here, the challenging times, to there,
9 harnessing that opportunity.

10 One of the primary impediments to the
11 growth in this sector is the increasing difficulty
12 all industry participants are having in attracting
13 capital. Capital, of course, is the lifeblood of
14 the telecommunications industry, or any industry
15 for that matter, and without it the public interest
16 is almost certain to be compromised.

17 Infrastructure providers need access to
18 capital to operate networks, to maintain and
19 improve the quality of service to the American
20 telecommunications consumer. Competitive entrants
21 need capital to fund business plans that will allow
22 these companies to enter the market, differentiate
23 service, become profitable, and provide long-term,
24 sustainable competition in the marketplace.

25 Both need capital to fund network

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1 upgrades and develop new services to bring them to
2 the market and to themselves become profitable.
3 But it's not only the service providers that suffer
4 during these times. There is a whole substrata of
5 industries that are dependent on its success.

6 Equipment vendors, for example, are
7 finding it difficult to find buyers of their wares.

8 Some of these vendors represent the very heart of
9 our industries -- research and development efforts.

10 Thus, the impact of a prolonged cash crunch could
11 have long-lasting effects on the industry, and
12 thereby the nation's productivity and competitive
13 edge.

14 As I articulated in late July, I
15 believe strongly that there are no less than six
16 critical steps that the industry must take in order
17 to return the flow of capital necessary for this
18 industry to recover.

19 First, the Commission certainly must be
20 guided in its objectives in protecting consumers in
21 the face of a saddening number of bankruptcies. We
22 will make every effort to ensure continuity of
23 services as the industry goes through the pain of
24 change and restructuring.

25 Second, we must, and industry

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1 leadership must, root out corporate fraud. In
2 order to restore confidence in corporate America,
3 this must be done, and those responsible severely
4 punished.

5 I have the pleasure of serving on the
6 President's Corporate Fraud Task Force, and I echo
7 his sentiments when I say that these abuses will be
8 found, rooted out, discovered, and punished
9 ruthlessly.

10 Third, the industry must dedicate
11 itself to restoring its balance sheets. Firms must
12 find a way to cut costs, pay down debt, and become
13 more transparent and efficient, so that investors
14 can fully appreciate the true risks associated with
15 the investment that they urge.

16 Again, the best companies with the best
17 leadership are those who are committed to restoring
18 financial fundamentals. Those that are taking
19 these actions should be rewarded; those that are
20 not, abandoned.

21 Fourth, industry will have to undergo
22 some prudent restructuring. Some consolidations
23 and bankruptcy, both restructuring and liquidities,
24 will be needed to address insufficient economic
25 realities in some markets. This Commission will

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1 play an important role in this restructuring, and
2 where consolidation is concerned will be vigilant
3 in reviewing mergers on their merits, denying anti-
4 competitive transactions and approving those that
5 serve the public interest.

6 Fifth, carriers will have to develop
7 and deploy new services and drive new sources of
8 revenue for their long-term productivity and
9 health. Today we see the promises on the horizon
10 of those new services -- broadband internet access
11 and the myriad applications and services that might
12 be provided over such a rich platform.

13 We also see great potential in the
14 areas of wireless services, such as ultra wide
15 band, wi-fi, and traditional wireless voice
16 services. Today's innovations will be tomorrow's
17 profits and growth.

18 And, finally, federal and state
19 regulators must engage in economic and regulatory
20 foundational reform that takes into account the
21 experience of the last six and a half years and
22 apply them to the realities of today's marketplace.

23
24 Today, at this hearing, we will focus
25 largely on the third, fourth, and fifth steps on

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1 this road to recovery. It is our hope to bring
2 some of the knowledge I have gained in my own
3 discussions with various aspects of the financial
4 community over the last few months to the
5 Commission staff and to give my colleagues an
6 opportunity to engage in discussion with this
7 group.

8 We will hear today about the economy in
9 general, the telecommunications market, and how
10 capital flows to fund operations. And we will hear
11 from a distinguished panel on their thoughts where
12 the industry has been, and, just as importantly,
13 where it is going.

14 Again, I want to thank them for being
15 here today. I believe all of us will find today's
16 discussion both enlightening and extremely
17 informative.

18 With that, I have the pleasure of
19 turning it over to any of my colleagues for
20 comments that they might have.

21 Commissioner Abernathy?

22 COMMISSIONER ABERNATHY: Thank you, Mr.
23 Chairman.

24 First, I want to thank the Chairman for
25 all of his efforts in pulling together today's en

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1 banc. I think it shows a very real appreciation of
2 how significant this issue is for all of us.

3 And I want to thank all of the experts
4 for coming to D.C. to share your insights and
5 thoughts with us. As always, it's invaluable and
6 critical to our analysis.

7 I also want to point out, though, that
8 despite what many may believe, we are not magicians
9 with the power to turn around the flagging economy.

10 We are government regulators, however, and as such
11 we have a profound responsibility to stay informed
12 and to educate ourselves regarding the technology
13 and the services that are offered by the companies
14 that we regulate, because only then can we craft
15 the regulations that best serve the public interest
16 and that are consistent with the statutory
17 obligations that are set forth by Congress.

18 To my mind, one of the most important
19 things the FCC can do is to appreciate the sense of
20 urgency that is surrounding our pending
21 proceedings, and, specifically, those that are
22 related to competition policy and broadband
23 services.

24 We're asking fundamental questions
25 about the way facilities and services are

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1 classified and how they are regulated. And the
2 rules that are ultimately adopted will have a
3 substantial impact on carriers' incentives to
4 invest in infrastructure.

5 We must not shy away from these tough
6 questions, but we also must appreciate that these
7 proceedings create uncertainty in the market, and
8 this uncertainty impedes the ability to develop
9 long-term business strategies and may chill new
10 investments. So we have to stay focused, and we
11 have to move forward.

12 While we may not possess the magical
13 powers to cure the industry's financial distress,
14 our regulatory scheme is clearly a critical piece
15 of the puzzle. So we also must ensure that our
16 regulations and our policies are not creating
17 impediments to investment and innovation, and that
18 we remain focused on our public interest
19 obligations.

20 Therefore, I look forward to hearing
21 your ideas about how we can better do our part to
22 stimulate growth and economic recovery for the
23 telecom sector.

24 Thank you very much.

25 CHAIRMAN POWELL: Thank you,

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1 Commissioner.

2 Mr. Copps?

3 COMMISSIONER COPPS: Thank you. I,
4 too, want to commend the Chairman for scheduling
5 this hearing. These en banc hearings I think are
6 just an invaluable way for us to gain critical
7 input on stakeholder issues. I think the one we
8 had recently on equal employment opportunity was a
9 wonderful learning experience for all of us. I
10 know today's hearing will be, and I hope we will
11 have future en banc hearings on the multiplicity of
12 proceedings that are before this Commission.

13 Today affords us an opportunity, I
14 think, to get some needed perspective on telecom's
15 difficulties. We have had probably too many
16 simplified explanations of why we are where we are
17 and too many silver bullet suggestions for how to
18 get out of the mess that we're presently in. The
19 causes are, I imagine we will hear today, complex.
20 The way out is equally challenging.

21 I don't think any of us should be
22 thinking in terms of the hundred yard dash to
23 recovery -- the quick, easy solution that's going
24 to right a world gone amuck. Rather, it's the
25 long, hard contest of endurance. And in a contest

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1 like that, every step along the way is important,
2 none more so than the first step.

3 And I've been trying to impress upon
4 all of the folks who have come by my office in
5 recent weeks that we ought to be able to find some
6 first and targeted and achievable and doable kind
7 of steps and stop trying to remake the telecom
8 world in one fell swoop on the theory that there is
9 one little fix out there that can solve all of our
10 problems and put us back on the road to prosperity
11 forever.

12 But it's hard to get people to listen
13 when the decibel level is so high, and I hope today
14 we can, with your input, maybe lower the decibel
15 level a little bit.

16 Let me just observe that so much is at
17 stake here on how we proceed to deal with telecom's
18 problems. Some of the sector's problems are no
19 doubt internal and traceable to faulty business
20 plans. But probably even more of the problems have
21 been generated externally.

22 To name but a few possible causes of
23 the distress -- the recession that stalks other
24 sectors of the economy in addition to telecom, the
25 hyper expectations the market placed on new and

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1 developing telecom businesses not so many years
2 ago, the problems of the financial sector
3 generally, corporate governance problems involving
4 everything from too-clever-by-far accounting
5 practices to a more generalized public reaction
6 against obscene severance payments and retirement
7 perks, uncertainty about future legislative and
8 regulatory policies and programs, and perhaps even
9 larger questions going to the protection of the
10 public interest during the wild ride that we've
11 been on.

12 I know that the public interest is not
13 our designated subject for discussion today. I
14 would ask our panelists only to be cognizant that
15 we are not only addressing an economic problem but
16 trying to do so within the context of the public
17 interest, consumer benefits, serving all Americans
18 no matter who they are and where they live, and
19 making available to them the best and most advanced
20 telecommunications system possible.

21 We are interested, mightily so, in all
22 of the economic and commercial dimensions of
23 telecom's woes and telecom's recovery. But in the
24 final analysis, we always come back to that last
25 ultimate question: does what is being proposed

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1 serve the public interest? It's a big order to fit
2 all of this together, but in a recent article I
3 read over the weekend George Sorose made a pretty
4 good run at it.

5 And I won't try to synopsise that
6 article here, but I commend it to you if you
7 haven't seen it, to my colleagues, for its
8 discussion of some of the failings he sees in the
9 financial markets, some of the risks he sees in
10 focusing too inclusively on the quick profit and on
11 so-called economic efficiency, and some of the
12 benefits he sees emanating from looking at these
13 problems through a broader public interest lens.

14 Whether we agree or not with all that
15 he says, we equip ourselves much better to deal
16 with these issues by thinking about them in the
17 broadest possible terms.

18 I'll just say for a second and tell you
19 at the outset that I'm an optimist about the
20 telecom sector. That is a minority view, of
21 course, but I occasionally find myself in the
22 minority --

23 (Laughter.)

24 -- around here. But my read right now
25 is that although there has been a serious toll

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1 taking telecom's shakeout, this industry is going
2 to come back, probably sooner rather than later,
3 probably sooner than some of the pundits are
4 thinking. The technologies are there, and they are
5 only proliferating.

6 There is obviously an infrastructure
7 need in this country tantamount to some of the
8 other great infrastructure buildouts that we've
9 encountered throughout the course of American
10 history. And demand is growing, so if
11 communications is not going to lead our economy out
12 of its current troubles and into prosperity in the
13 new century, then I don't know what sector is.

14 So I'm very much looking forward to
15 this session and the perspectives of the
16 distinguished presenters who will be -- we will be
17 hearing from today. I thank you all for taking the
18 time and trouble to be here with us, and we are
19 very much looking forward to your input.

20 CHAIRMAN POWELL: Thank you,
21 Commissioner.

22 Commissioner Martin?

23 COMMISSIONER MARTIN: Thank you, Mr.
24 Chairman, and thank the panelists for spending the
25 time with us this afternoon to give us their

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1 insights into what the Commission can try to do to
2 help this particular sector of the economy.

3 The telecommunications sector is at a
4 critical crossroads and a critical time for both
5 the sector as a whole and -- I mean, for the sector
6 and for the industry and the economy as a whole,
7 and its impact it will have. We have all seen over
8 the last year the dramatic downtown that has
9 occurred. There has been half a million jobs lost,
10 and there has been \$2 trillion in value lost in the
11 stock market of these companies.

12 But these are not statistics or paper
13 losses. There are families all across the country
14 that have experienced real pain resulting from this
15 economic downturn. And many long-term employees
16 have witnessed their life savings disappear with
17 little or no severance pay and with their 401(k)
18 retirement savings vanishing with the stock market
19 slide.

20 And I don't believe that the Commission
21 has a single silver bullet to this problem for the
22 telecommunications sector. But as I've stated
23 before, I do think we can contribute to its
24 recovery by establishing a stable, reliable, and
25 efficient regulatory environment.

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1 Regulatory uncertainty and delay
2 function as potential entry barriers in and of
3 themselves, limiting investment and impeding
4 deployment of new services. I support the
5 Chairman's efforts and all of his recent comments
6 about the importance of us acting quickly on all
7 pending rulemakings and responding to, as
8 Commissioner Abernathy talked about, the sense of
9 urgency that is out there in the sector as a whole.

10 So I think that such prompt
11 decisionmaking will be important, and that it will
12 be something that we can contribute to in that
13 stable environment going forward.

14 And so with that, I'll be anxious to
15 hear what the panelists have to say about what
16 actions and what direction we should be trying to
17 take.

18 Thank you.

19 CHAIRMAN POWELL: Thank you,
20 Commissioner.

21 We'd like to begin to provide some
22 context for today's discussion by asking Dr. Simon
23 Wilkie, the FCC's Chief Economist, to provide an
24 overview of the U.S. economy in which these
25 problems in the telecommunications sector are

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1 operating.

2 Professor Wilkie?

3 PROFESSOR WILKIE: Thanks, Mr.
4 Chairman.

5 I'm going to talk about the overall
6 macroeconomic perspective on the economy. I won't
7 be focusing on the telecommunications industry per
8 se, only to mention that, of course, it is a
9 significant part of the economy and played a
10 significant part in driving the previous economic
11 expansion in the record-long 10-year expansion we
12 had.

13 Next slide, please.

14 So, actually, just to give you an
15 overview, of what we're going to do today, first
16 I'll talk about the recession, then the current
17 economic situation as it stands. We'll then talk
18 about macroeconomic forecasts, supply and demand
19 indicators as the economy currently stands and
20 looking forward, potential problems on the
21 macroeconomic horizon, how will the economy be
22 affected by them, following problems and reasons to
23 be cheerful, things that seem to be sound in the
24 economy at the moment, and then I'll offer some
25 brief conclusions.

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1 Next slide.

2 So let's begin by talking about the
3 recession. As you know, we had a significant
4 recession. The NBER, the National Bureau of
5 Economic Research, now dates the recession from
6 March 2001. The recession actually lasted for
7 three quarters technically, in the sense that in
8 each quarter GDP, gross domestic product,
9 contracted for the first three quarters of 2001.
10 That's according to the Bureau of Economic
11 Analysis.

12 Checking industrial production, we see
13 that industrial production peaked in June of 2000,
14 and it reached a trough -- the low point in terms
15 of production of the recession was actually in
16 December 2001, and we've had a 7.2 percent decline
17 from peak to trough in industrial production, which
18 is about average for a recession.

19 Real personal income, however, fell
20 through 2001, household incomes. But it has risen
21 significantly through 2002. In fact, an
22 interesting point is that it's almost back to the
23 levels that it was before the recession.

24 Next slide, please.

25 So that's the recession that we faced.

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1 What about our current economic situation? Well,
2 we seem to be going through a modest and somewhat
3 wobbly recovery. The first quarter GDP grew five
4 percent, which sounds -- on a per annum rate, which
5 is quite significant. In the second quarter this
6 year, GDP grew at 1.3 percent.

7 Let me just say that the five percent
8 sounds impressive, but the initial bang coming out
9 of the gate, as you come out of a recession, is
10 always large as firms try to replace their depleted
11 inventories. So that number is always biased
12 upwards.

13 Unemployment, however, has remained
14 stable in the current economic situation. Output,
15 however, is rising faster than employment, so we
16 still have overall productivity growth in the
17 economy -- about 1.2 percent.

18 Corporate profits have recently, just
19 recently, turned around overall with one notable
20 exception. Profits are up 8.8 percent, if we
21 analyze second quarter over second quarter from
22 2002 to 2001. So these indicators seem to suggest
23 that we're actually going through a pretty healthy
24 recovery, nothing exceptional, but pretty much
25 average.

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1 However, leading indicators, which
2 economists sometimes use to predict what's going to
3 happen into the future, have declined in the last
4 three months. So some people fear that we might
5 have a relapse into another recession because of
6 this -- it's very unusual to have leading
7 indicators decline for three consecutive months.

8 Okay. Next slide, please.

9 So looking forward, what are the
10 economic forecasts? The CBO, Congressional Budget
11 Office, estimates that for year 2002, annual year,
12 we'll have -- calendar year -- we'll have a 2.3
13 percent GDP growth rate, which is of modest
14 significance. Beyond that, looking into 2003, they
15 estimate a three percent GDP growth rate.

16 Beyond that, in the 10-year time
17 horizon for the 2002-2012 timeframe, the CBO
18 estimates a 3.2 GDP growth rate. The BEA, by
19 comparison, projects a growth rate of non-farm
20 industrial production of 3.4 percent. So similar
21 numbers.

22 So just to put that in historical
23 perspective, during the boom years of the 1990s,
24 GDP grew at a rate of 2.9 percent from '91 through
25 to '95, and 3.8 percent from '96 to 2001.

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1 Okay. Inflation has pretty much been
2 vanquished. It's about 1.7 percent for this year
3 and expected to be about 2.4 percent next year. So
4 there are no significant concerns about inflation
5 in the intermediate horizon.

6 Unemployment, as I mentioned, is
7 projected to be 5.9 percent for 2002, and the same
8 for 2003. So unemployment has risen from its all-
9 time low that we had a few years ago when it
10 actually touched four percent, but that is
11 historically an unprecedented low number. Even
12 though 5.9 percent is coming out a recession, as a
13 historical average it's not too bad.

14 Okay. Next slide, please.

15 This slide covers some of what I just
16 talked about in much more detail. You can see that
17 nominal GDP -- that's in dollar terms, not taking
18 out inflation -- in 2001, it was a tad over \$10
19 trillion. Forecast for this year is \$10.429
20 trillion and for next year \$10.912, almost \$11
21 trillion.

22 Forecasting out 10 years, the CBO
23 projects that average over the 2008-2012 time
24 horizon that GDP will up to \$17 trillion a year.
25 As I mentioned, the nominal GDP growth, which is in

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1 dollar terms, not taking out inflation, is for 2.6
2 percent this year -- sorry, 3.4 percent this year,
3 4.6 percent next year.

4 The unemployment rate is stable at 5.9
5 percent. If we look down at the bottom, we can see
6 that the three-month Treasury bill rate is at
7 1.7 percent. That's forecast to be 2.9 percent
8 next year.

9 It's interesting to note that the 10-
10 year T-note rate is at 4.9 percent at the moment,
11 so we've had a much steeper yield curve than we've
12 had in the last couple of years. The flattening of
13 the yield curve essentially meant investors became
14 rather unworried about risk. That steepness of the
15 yield curve is an indication that that's no longer
16 the case.

17 Okay. Next slide, please.

18 This next slide puts it into a
19 pictorial perspective. We can see where we've been
20 and where we're projected to go in terms of real
21 gross domestic product. If you look at the top
22 left-hand chart, you'll see that in this last
23 recession, though we had an overall -- we didn't
24 actually get a year-over-year negative return on
25 GDP. So even in 2001, there was still very small

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1 growth, .3 percent.

2 So the economy never actually
3 contracted over a full year. So it was in that
4 sense, for the economy overall, rather mild.

5 And, similarly, you see a similar
6 description of the events in the unemployment rate
7 and also in the treatment of interest rates in the
8 other charts.

9 Next slide, please.

10 So let's try and disconnect supply from
11 demand and analyze the relative importance of these
12 two components in what's going on in the economy.
13 So as I mentioned, real personal income has not
14 fallen. It did briefly in 2001, but it's back
15 where it was.

16 Consumer demand remains high. However,
17 we have anemic business investment, and capacity
18 utilization remains low. So if we look at the
19 supply side of the equation -- next slide, please
20 -- currently, industrial capacity, as of last
21 August, is at 76 percent. It's been flat for the
22 last three months. So even though the economy is
23 growing, our use of capacity isn't really growing.

24 A year ago we were at 76.4 percent, so we haven't
25 really moved anywhere in a year.

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1 Just to put these numbers in
2 perspective, the long run average over the last 20
3 years of the industrial capacity has been at 81.9,
4 82 percent, so we're well below average. The all-
5 time low was 71 percent in 1982 and 85.4 percent in
6 1988-'89.

7 Capacity overall is still growing in
8 the economy. That means there's still investment
9 in capacity. Last year it actually grew at one
10 percent.

11 Okay. So that's on the supply side.
12 Let's look at the demand side.

13 Next slide, please.

14 The next slide charts the real change
15 in final demand in the economy. As you can see, it
16 plummets in recessions. In the last recession,
17 again, it plummeted, but it didn't actually go
18 negative. Consumers have demand as being
19 incredibly resilient. It has partially recovered,
20 but it's not back to the gangbuster years as it was
21 in the growing four percent, five percent
22 consistently in the 1990s.

23 But it's interesting to note that it
24 never actually went negative. We never actually
25 had a shrinking of final demand.

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1 Okay. So what's going on overall?
2 Let's look at the sectors in a little bit more
3 detail in the next slide, please.

4 So what's growing? Well, actually, the
5 service sectors generally are growing in the
6 economy at quite a rapid clip. So services are
7 growing in particular health care; parts of the
8 entertainment industry are growing. In addition,
9 some areas of construction are growing, originally
10 fueled by the housing boom and now more recently
11 fueled by a government building boom. And, of
12 course, the federal government is growing as a
13 sector of the economy.

14 Next slide, please.

15 What are the significant lagging
16 sectors? Well, notably, the telecommunications.
17 Telecommunications has been suffering from
18 extensive overcapacity, and it's so lagging the
19 rest of the economy in terms of returning. In
20 addition, information technology is also lagging.
21 And in terms of production, high tech industrial
22 production, the firms that make the inputs into the
23 network is the area of production which has the
24 lowest capacity utilization in the economy
25 currently.

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1 The financial sector is partially
2 rebounding, but it hasn't been rebounding in terms
3 of profitability. It lags the rest of the economy,
4 the other industrial sectors.

5 Next slide, please.

6 So just quickly, what are the potential
7 problems looking forward? Well, the big one is the
8 wealth effect, that we've had this massive decline
9 in the stock market, but it doesn't seem to have
10 affected consumer behavior, which is quite an
11 anomaly.

12 So if consumers ever decide to stop
13 spending because of this massive decline in their
14 personal wealth, that could lead to another
15 recession. Things are recently more complicated by
16 the dock worker strike on the west coast, which
17 stops about \$1 billion of trade a day. And as the
18 economist Dennis Robinson said in the 1930s, "Trade
19 is the engine of growth."

20 In addition to that, we have potential
21 complications with the Mideast, which might affect
22 the budget situation and the price of oil. Trade
23 issues also loom on the horizon, steel tariffs,
24 export tax policies, and agricultural subsidies,
25 which have led to the possible threats of trade

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1 confrontations between Europe and the U.S., which
2 would also be negative impact on growth.

3 So, finally, let's turn around. What
4 are the reasons to be cheerful?

5 Next slide, please.

6 As I mentioned, the economy has
7 actually been growing since third quarter 2002.
8 And if we extrapolate from the start of this year,
9 it's growing at an annual rate of about 3.8
10 percent, which is higher than expected.

11 Unemployment seems to be stable right
12 at the moment at 5.8 percent, which is a bit lower
13 than expected. Personal income is close to an all-
14 time high, and consumer expenditures are resilient.

15 So, in conclusion, the recession was
16 significant. There is a classic overcapacity
17 situation, but personal income has remained stable.

18 Non-financial sector profits are recovering, but
19 the stock market decline and financial conditions
20 create substantial uncertainty as to how robust the
21 recovery is.

22 Thank you.

23 CHAIRMAN POWELL: Thank you very much,
24 Simon.

25 I think now we'd like to turn to and

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1 introduce Rob Gensler. Rob is the Vice President
2 and Portfolio Manager for T. Rowe Price. He joined
3 the firm in '93 with seven years of previous
4 investment experience. Rob is President of the
5 Media and Telecommunications Fund and Chairman of
6 its Investment Advisory Committee.

7 Welcome, Rob.

8 Rob will give us an overview of
9 financial industry basics.

10 MR. GENSLER: Right. Thank you, Kevin,
11 Kathleen, Michael, and Michael. I'm somewhat
12 struck. I'm flattered by the invitation, but I'm
13 struck by some of your comments that we're
14 supposedly the experts.

15 If you look at our results in the
16 investment community, I would hardly call us
17 experts where the average telecommunications fund
18 is down over 50 percent year to date, and that's
19 after being down 40 percent last year and down 35
20 percent the prior year. That makes a three-year
21 run that's rather daunting.

22 So as the tallest of the munchkins,
23 I'll speak for the industry. But I would never --

24 (Laughter.)

25 -- claim to be an expert so to speak.

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1 It's interesting, though, that we do
2 set the rules, not we the telecommunications
3 investor, but really the portfolio managers that
4 invest in diversified industries, both growth and
5 value. Okay.

6 And the buy side, not the sell side,
7 the buy side, the actual investors of people's
8 money in mutual funds, in pension funds, in
9 institutional funds, actually have the daunting
10 task of investing. The sell side, Wall Street, is
11 somewhat like the vendors in a shoe store trying to
12 tell you whether to buy wing tips or penny loafers.

13 We have to figure out which one and at what price
14 we want to do that.

15 And the rules change all the time based
16 on cashflows, based on indices that we're trying to
17 keep up with. And, unfortunately, I'd have to say
18 that we share in some of the blame of the bubble.
19 It's not just regulators. It's not just industry.

20 It's a bit of everything, and we're in there, too.

21
22 And we've changed the rules of
23 engagement from one of hopes for growth and revenue
24 growth, okay, to free cashflow, return on invested
25 capital, earnings per share. The income statements

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1 matter. The balance sheets matter. And we keep
2 moving down through the traditional financial
3 metrics that somehow we left out and lost out in
4 the late '90s.

5 The funds flow today is actually okay.
6 Pension funds still get money into them from their
7 employees by definition, whether defined benefit or
8 defined contribution. Okay? And in the defined
9 benefit they actually -- many companies will have
10 to start putting money back into them again,
11 because the overfunding status is going away.

12 The mutual fund industry still has
13 money flows coming into it, although a very
14 different nature of flows than a few years ago.
15 The flows are more into value funds and less into
16 growth funds. But overall, the flows are still
17 modestly positive.

18 And in spite of times when the fixed
19 income funds have gotten most of the money
20 throughout the summer, we're back to the point
21 where equity funds are actually getting modest
22 money, although the high-yield funds, which were a
23 great funder of the whole telecom bubble, have
24 changed their attributes.

25 If you recall in high yield, over 30

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1 percent of their new money was going into the
2 telecommunications industry at its peak. But when
3 we talk about reinvestment and investment in
4 telecommunications, there's really two forms that
5 one always has to remember. It's not just the buy
6 side or the investment community. But it's really
7 the rules we set for the industry, and, therefore,
8 their reinvestment rate.

9 This is what percentage of revenues get
10 reinvested into capital spending, what percentage
11 of sales, and this could be true in any industry.
12 It would be R&D or investment or CAPEX. And in
13 traditional days in telecom, it was about 20
14 percent of revenues got reinvested, and it peaked
15 in the high 30s in the United States, peaked in the
16 high 20s to 30 percent elsewhere in the world.

17 And right now, with the lack of growth
18 that we see, many investors, myself including, are
19 demanding, almost imploring, managements to give
20 the money back, pay higher dividends, buy back
21 stock, pay down debt, etcetera. If we don't see
22 prospects for growth, the money doesn't get
23 reinvested.

24 So it's more this reinvestment rate,
25 the percentage of sales spent on capital spending

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1 now, that is the problem, in terms of your
2 question, about fostering investment.

3 Then, actually IPOs or secondaries or
4 high yield, which may not come back for some time,
5 but if the -- that investment rate is now below 20
6 percent of sales. It's looking like it's headed to
7 15 percent of sales. And, quite frankly, as the
8 typical investor, I'd be happy if they didn't
9 reinvest anything and if they gave it back. But
10 that's another story. Okay.

11 If I move on -- and I apologize for
12 this. This is not a slide I gave you, but it sort
13 of strikes to your question, is: what is our
14 investment process, and what do we look for, and
15 how has this changed? And it's really not that
16 different at other families than it is at T. Rowe
17 Price.

18 We look at near-term fundamentals,
19 long-term growth outlook, pricing power, margin
20 outlook, structure of industry -- is it getting
21 better or worse? Is it fractured? Product cycles
22 -- are they mature, etcetera? Balance sheets, free
23 cashflow, return on invested capital, and oh, by
24 the way, valuation.

25 I can submit this slide later.

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1 But the intriguing thing is if I go
2 through each of these, many of them are areas that
3 they are bleak or they are problematic, but there
4 is nothing this Commission can do per se. You
5 know, the near-term fundamentals are bleak because
6 of the economy. Okay?

7 But the long-term growth outlook is
8 troubling because unit demand is very good. Okay?

9 Units of consumption in telecom are growing
10 nicely, but there is no pricing power at all.
11 There is rate regulation, both retail and wholesale
12 rate regulation. So we get to a point where we
13 have good unit growth but very little revenue
14 growth, okay, in an industry.

15 And the margin outlook is actually
16 negative for the industry. We have a product mix
17 shift from fixed wire line to wireless and data.
18 Okay? This is akin to transportation a hundred
19 years ago where we migrated out of rails into
20 airlines and trucking and autos and etcetera, and
21 we need to do something where the core business is
22 shrinking.

23 And we're regulating that core business
24 as if it was the money for everything else and it
25 was the, you know, monopoly. And we have new

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1 competitive businesses that are far lower in
2 margin, and it causes a problem for the investment
3 community of how to look at it.

4 Structure of industry has nothing to do
5 with this Commission. It's more an antitrust
6 issue, and it's more the companies and their social
7 issues about whether or not they'd like to merge or
8 not. But by luck of the draw in the United States,
9 we have a fractured industry. In many other
10 countries of the world, you have much more
11 integrated providers who can get scale of scope,
12 better margins, etcetera.

13 Product cycles are maturing. Nothing
14 anyone can do about that. Balance sheets are
15 actually getting better, which is at the heart of
16 your issue of investment. We want better balance
17 sheets. We want the money returned in terms of
18 paying down debt, etcetera. It's a nice thing for
19 the investors.

20 Free cashflow -- well, most of the
21 industry hasn't had any but is getting modestly
22 better. Return on invested capital is getting
23 better as well, and valuations -- well, at least
24 they're intriguing, but we don't know, because the
25 whole public market, remember, has traded down to

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1 about 15 times earnings.

2 And value investors, which are the only
3 investors that really want to touch any
4 telecommunications funds -- stocks, are really, you
5 know, looking at many, many names that are trading
6 at eight to 12 times earnings. So in spite of the
7 fact that we think these valuations are so low, and
8 why wouldn't people invest, if I go to my
9 diversified value managers, they say, "Well, I've
10 got about 10 other names, or 20, or 50, or 100
11 names I could buy that have less regulatory issue,
12 less margin issue, less pricing power issue, less
13 structure of industry issue, less long-term growth
14 issues, better trading at similar valuations."

15 Okay. So, again, I'm sorry I don't
16 have that slide. I can submit it later.

17 We then move to the slides I do have,
18 where -- I don't know how I get to a slide, but
19 this was sort of the historic. You know, we had
20 for four or five years the best of times. This is
21 all old news, so I'm going to -- you know, but we
22 thought it was easy. Investors as well. Okay.
23 Companies, regulators, we all share in the sort of
24 exuberance. I definitely will take part of that
25 blame.

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1 But if we move on to the perfect storm
2 of '01-'02 -- next slide, okay -- and this is,
3 again, all old news in a sense, but I'd like to try
4 to focus on this in the next slide, of what we can
5 do better. You know, we do have maturing product
6 cycles. Nothing we can do. Weak economy --
7 nothing we can do, although that will get better
8 hopefully sometime in my investment horizon.

9 Okay. Overcapacity due to the binges
10 -- that will get better. Difficult regulation,
11 which I'll talk about in the next couple of pages,
12 pricing powers collapse, revenue growth disappears,
13 margins decline, etcetera. One wonders why we have
14 any money still left in telecom when I look at
15 this.

16 But the intriguing thing is the
17 structure of industry is getting better. And also
18 intriguing, if you would split the
19 telecommunications industry into wire line,
20 wireless, and the cable industry, just to throw in
21 for sort of another network infrastructure
22 business, the cable industry is still investing.
23 Wireless is still investing, although I would
24 proffer to say that both the investment rates will
25 go down in the next couple years.

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1 But it's really the fixed wire line
2 business that has cut its investment rate the
3 sharpest. First, the CLECs went away, but then the
4 incumbents have shut down their investing. And
5 it's intriguing that that's the most rate regulated
6 part of the three. The rate regulation in cable
7 isn't there, and they are investing to try to get
8 scale of scope.

9 In wireless, although it's fierce
10 competition, the investment still goes on. And I
11 just want to point out that it seems different in
12 terms of the outcomes.

13 If we go to the next page, the -- yes,
14 this page. Just to say that the telecom equipment
15 problem which you're talking about, will CAPEX --
16 that's the capital spending -- minus 15 percent in
17 '01, minus 30 percent in '02, minus another 10 or
18 15 in '03, much of this is because we're demanding
19 free cashflow and better returns on investment.
20 Much of this is the investment community demanding
21 results, because we don't get growth and we're not
22 getting any pricing power. So we want the money
23 back.

24 It's poor balance sheets getting
25 better. Wireless has no profits, and cable has

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1 negative free cashflow. So the wireless and cable
2 that I said are better investors today probably
3 directionally are only a year or two behind.

4 If we go to the next slide, sort of
5 continuing issues for investment -- and some of
6 these I want to talk about and think how they're
7 different in other places of the world. Okay?

8 The first, the fixed voice product
9 migration to wireless and data is true everywhere.

10 This is just a fact of life in the industry, and
11 it's actually a good thing. We're getting new
12 products. We're getting new competition. But we
13 can't ignore it when we think about regulation.
14 Okay?

15 And we have a fractured structure of
16 the industry. We have three or four long distance.

17 We have four geographic local providers. We have
18 six wireless. We have five technologies in
19 wireless. So it's a bit of a mess, I'm sorry to
20 say.

21 It's a lot better in a lot of other
22 countries, and we who move money around the world
23 are actually investing more in telecommunications
24 internationally than we are domestically. Okay?
25 Because although it suffers from .1, low growth and

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1 product migration, but we have more stable industry
2 structures that at least foster reasonable returns
3 on capital.

4 We also have intermodal competition.
5 That's the new modes of data and wireless competing
6 with wire line, and even cable competing and then
7 cable modems. But we have a structure of
8 regulation that's predicated on intramodal
9 regulation -- UNE-P trying to foster a competitive
10 environment in fixed wire line, okay, and many
11 other areas where we're looking at these as if they
12 were silos as opposed to areas competing with each
13 other.

14 Okay. We have deregulated competitive
15 growing product lines, wireless. Even broadband is
16 somewhat deregulated, although the terms of
17 regulation are slightly different. But we have a
18 declining core business, the fixed line/wire line
19 business, that's heavily regulated. And maybe
20 that's the money that we need, the profits from
21 that, that would go into the new product lines.

22 You know, we had a social contract in
23 this country, the local with somewhat lower rates
24 and everything else had higher rates, and there was
25 an implicit cross-subsidy that went on. But the

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1 new -- the higher rates in long distance and all
2 these other areas have come down due to
3 competition, but that implicit social contract,
4 which might be made more at the state PUCs than at
5 the Fed, hasn't really been reexamined or changed.

6 So we also, with the states, have
7 retail rate regulation, as well as wholesale rate
8 regulation. I'm not sure you can -- I mean, I'm
9 not smart enough to get them right. I'm not sure
10 anybody is in terms of the interplay of new
11 competitors picking off incumbents predicated on
12 where they just pick and choose to, you know, hit
13 on the existing regulation.

14 And, obviously, this is not your
15 problem. It's just a fact of life. We've got
16 state PUCs versus FCC. I don't have any advice on
17 what you do with that. That's a third rail I don't
18 want to touch.

19 Thank you.

20 CHAIRMAN POWELL: Thank you, Rob. That
21 was an outstanding overview, very insightful.

22 I'd like to move now to Robert Konefal,
23 who is from Moody's Investors Service. He's the
24 Director in the Corporate Finance Group at Moody's.
25 He directly manages the ratings group that covers

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1 investment grade telecommunications, media and
2 technology companies in the United States, Canada,
3 and Central and South America, since April 1998.

4 Welcome.

5 MR. KONEFAL: Thank you. Good
6 afternoon, Mr. Chairman and Commissioners. On
7 behalf of Moody's, I am pleased to appear before
8 you today regarding steps toward recovery in the
9 telecommunications industry.

10 We appreciate the opportunity to share
11 our views with the Commission regarding the current
12 state of the industry and the near-term outlook
13 under the existing framework. As a rating agency,
14 we do not take opinions on particular policy
15 issues, but, instead, we analyze the current and
16 long-term ability of companies to service their
17 debt.

18 With respect to our assessment of the
19 ability of telecommunications companies to meet
20 their debt obligations, we believe that a
21 distinction should be made between the long
22 distance, local, and wireless subsectors, because
23 there are notable differences in the credit quality
24 and outlook.

25 Let me start by discussing Moody's and

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1 its role in the financial markets, and then provide
2 our views on the outlook for ratings of
3 telecommunications companies for the next 12 to 18
4 months.

5 Moody's is the oldest rating agency in
6 the world. Our roots can be traced to 1900 when
7 John Moody & Company first published Moody's
8 Investor Service focused on rating railroad bonds.

9 As early as 1924, Moody's was rating nearly every
10 bond in the U.S. bond market.

11 Although Moody's rates a wide range of
12 debt obligations, the heart of our service lies in
13 rating long-term bonds, for which we have nine
14 primary debt rating categories. Investment grade
15 ratings range from a high of Aaa down to a low of
16 Baa. Speculative grade ratings range from Ba to C.

17 Overall, Moody's ratings are designed to provide a
18 relative measure of risk, with the likelihood of
19 credit loss increasing as the rating decreases.
20 And over time our default studies have shown that
21 ratings effectively distinguish bonds with higher
22 credit risk from bonds with lower credit risk.

23 It's equally important to note what our
24 work at Moody's does not include. A rating is
25 neither a buy nor a sell recommendation, nor is it

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1 a seal of approval. Rather, our ratings reflect
2 Moody's opinion of the relative creditworthiness of
3 a fixed income security. Furthermore, just as we
4 do not insure the bonds we rate, we do not audit
5 the financial information provided to us.

6 Now let me turn to Moody's analysis of
7 the telecommunications industry. It will likely
8 not surprise the Commission that our outlook for
9 the next 12 to 18 months for all segments is
10 negative. However, we see the degree of negative
11 pressure as most severe for long distance carriers
12 and more modest for local exchange carriers and
13 wireless companies.

14 The question hanging over this hearing
15 is: what steps can the Commission take to put the
16 telecom sector on the path to recovery? That is an
17 important topic, and I'm confident that others will
18 have specific, although perhaps conflicting, policy
19 recommendations to accomplish that goal.

20 But it is important to realize that a
21 number of forces acted together to put the industry
22 in its current state. Beyond the government
23 regulation, other factors include new competitors,
24 technological advances, and the larger forces at
25 work in the economy. We believe that all of these

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1 forces will play a role in the future of the
2 telecom industry.

3 Moody's notes a number of current
4 concerns for the sector. Capital markets are weak,
5 making debt refinancing more challenging.
6 Expectations for strong growth, particularly in
7 wireless and data, have fallen short. Competition
8 is fierce, not only within segments but across
9 them, as wireless substitution is becoming an
10 increasing factor affecting local long distance
11 service. Massive overinvestment has led to a glut
12 of capacity and overextended balance sheets.

13 Finally, free cashflow generation is
14 marginal in relation to debt loads, and in some
15 cases still negative.

16 In the past year, we have downgraded
17 companies with large long distance businesses --
18 AT&T, WorldCom, Sprint, and Qwest -- by multiple
19 notches. AT&T and Sprint are now rated low
20 investment grade, Qwest is rated speculative grade,
21 and WorldCom, of course, defaulted.

22 Looking at the local carriers, we
23 recently placed the Bell Companies -- SBC, Verizon,
24 and BellSouth -- under review for downgrade.
25 However, the magnitude of the downgrades will

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1 likely be very modest. As for wireless, most of
2 the large operators carry negative outlooks but are
3 not currently under review. Near term, we expect
4 the Bell Companies and the other ILECs to remain
5 the highest rated companies in the sector by a
6 significant margin.

7 Before I address each of the
8 telecommunications industry segments, I want to
9 underscore our role in the financial markets.
10 Moody's does not advocate policy positions, nor
11 does it have a preference on the outcome of a
12 rating, a particular regulatory issue, or a
13 marketplace event.

14 Our job is simply to evaluate a company
15 as best we can with available information, and, if
16 that information materially changes, to reevaluate
17 the company for a possible rating change. With
18 that caveat in mind, I will now address specific
19 industry sectors.

20 Looking first at the long distance
21 sector, the future is not bright. We expect
22 further declines in revenues and operating income.

23 The market share losses by the big three long
24 distance carriers will continue to decline due to
25 Bell entry and increased wireless substitution.

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1 The weakness in the debt and equity
2 markets is most pronounced for long distance
3 companies. After a period of large scale
4 investment, carriers are cutting back investment in
5 infrastructure dramatically. The impact of the
6 WorldCom bankruptcy is also unclear. WorldCom
7 customers may move their business and benefit
8 stronger carriers like AT&T and Sprint.

9 Pricing, after years of sharp decline,
10 may stabilize. But we expect RBOC entry to keep
11 the pressure on the long distance industry.

12 Finally, the prospect for consolidation
13 among long distance carriers we believe is low.
14 With so much excess long haul capacity, a
15 horizontal merger does not make sense. A long
16 distance local combination makes more sense if it
17 was to be permitted, but the performance and debt
18 problems of long distance carriers may prove to be
19 a deterrent.

20 Next we turn to the ILECs. Our outlook
21 for this sector is brighter, but still one that we
22 rate as modestly negative. ILECs remain dominant
23 in their markets despite access line losses. The
24 key development is that UNE-P resale, cable
25 competition, and wireless substitution collectively

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1 are now having a notable impact on the RBOCs'
2 performance.

3 Looking out over the next 12 to 18
4 months, we expect a continued flat trend in
5 revenues, operating income, and free cashflow. We
6 believe the ILECs will continue to suffer further
7 decline in market share to AT&T and possibly CLECs
8 coming out of bankruptcy. We also expect the ILECs
9 will continue to invest heavily in new facilities,
10 focusing on DSL and long distance.

11 As Section 271 approvals are granted,
12 we expect the Bells to achieve a significant share
13 of the consumer long distance market and a smaller
14 but meaningful share of the business market.

15 Next to the last, I will return to
16 potential competitors in the local market, the
17 CLECs and the cable operators. It is perhaps
18 telling on the state of the CLECs that Moody's has
19 withdrawn coverage of many of them because they
20 have defaulted, filed for bankruptcy, and are not
21 any longer issuing debt. But questions remain as
22 to what happens when CLECs emerge from bankruptcy
23 with their debt loads dramatically reduced. CLECs
24 will still need new capital, which will be very
25 difficult to obtain.

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1 However, some CLECs built substantial
2 facilities-based networks and could still be a
3 legitimate threat in certain cities.

4 Another competitive force is the cable
5 industry. To date, cable companies have focused on
6 upgrading their networks to offer digital video and
7 high-speed internet access and are winning the
8 battle against the ILECs' DSL product, a lead we
9 expect cable to maintain for some time.

10 Longer term, we believe cable
11 represents a threat to the ILECs in voice
12 telephony. Only AT&T broadband and Cox are
13 actively offering it now, but others may do so as
14 IP technology improves.

15 Finally, turning to wireless, the
16 outlook for this sector is also modestly negative.

17 In their favor, subscriber growth is still strong,
18 although it is decelerating and is resulting in
19 solid revenue and operating income growth. Most
20 operators, however, still have negative free
21 cashflow because the investment needs remain so
22 high.

23 While average revenue per user has been
24 relatively stable, pricing plans are granting
25 subscribers more and more minutes, which affects

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1 network and spectrum usage, and ultimately capital
2 expenditure.

3 As the Commission is well aware,
4 wireless operators spent heavily to build digital
5 2G networks. These investments have not yet
6 generated a positive return on the invested
7 capital. Now we find them investing heavily in 2.5
8 and 3G platforms, which limits their ability to
9 generate positive free cashflow in the near term.

10 In our view, CDMA operators have the
11 less expensive, less complicated migration path,
12 while TDMA operators face a more challenging and
13 expensive migration path that requires an overlay
14 of GSM technology.

15 Furthermore, the success of 3G services
16 is far from assured. In the long run, we do not
17 believe that markets can support six operators and
18 would anticipate either consolidation, if that was
19 permitted, or attrition.

20 In conclusion, we respect that the
21 Commission is well aware of the state of the
22 industry, and we thank you for allowing us to share
23 our views on the various industry subsectors. As
24 the environment affecting the industry changes in a
25 material way, we will review all available data

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1 regarding ratings of debt instruments to determine
2 whether any changes are warranted.

3 Thank you, Mr. Chairman, and
4 Commissioners.

5 CHAIRMAN POWELL: Thank you, Robert.

6 I'd now like to introduce Barry
7 Nalebuff, the Milton Steinbach Professor of Yale
8 School of Management. He's a co-author of the book
9 Co-Opetician. His first book Thinking
10 Strategically: The Competitive Edge in Business,
11 Politics and Everyday Life is a popular business
12 school text. It has been translated into seven
13 languages and was a best seller in Japan.

14 A consultant, as well as a scholar, Mr.
15 Nalebuff applies game theory to his work with
16 Fortune 500 clients and in antitrust litigation.

17 We welcome you, Professor.

18 PROFESSOR NALEBUFF: Thank you, Mr.
19 Chairman, fellow Commissioners.

20 I'm an outsider to this business. I
21 worked on the first spectrum auction, but since
22 then I haven't advised any companies in this
23 industry. Therefore, allow me to apologize in
24 advance for my bluntness. It's partly my nature,
25 and it's also the fact that I don't know where the

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1 minefields are.

2 Could we have the slides? Thank you.

3 What I intend to talk about today is,
4 first, what to do about broadband, then what to do
5 about local competition, or lack thereof, and,
6 finally, come up with a few recommendations.

7 Next slide, please.

8 The problem with broadband is simply
9 there aren't any good killer applications. We had
10 one. It was called Napster, and it was
11 unfortunately illegal. There are some other ones
12 that have come in place, whether it be Morpheus or
13 Linewire, but in general we don't have any
14 application that everybody thinks they must own.

15 Korea has had some success. They have,
16 of course, population density where 40 percent of
17 people live in high rises, and the big application
18 that has worked there is online video games. Boy,
19 that's something we need more of in the United
20 States.

21 (Laughter.)

22 So we don't have any existing ones, nor
23 is it clear that there are any obvious applications
24 coming up in the future. I read a report from
25 Brookings which said there would be \$500 billion in

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1 productivity gains from broadband. I think if you
2 believe that, I have dot com stocks to sell you.

3 (Laughter.)

4 They talked about, in a Department of
5 Commerce report, Biotech as a source of future.
6 Well, they said that Merck has four terrabytes of
7 data that you could perhaps want to download, not
8 at home. I don't think you're going to even want
9 to download that at your office.

10 And more than that, it's not that
11 you're going to take this four terrabytes of data
12 and use it, you're going to ask some computer
13 somewhere to do something with it. Very little
14 instructions you're going to be sending back and
15 forth.

16 They talked -- and also, of course, the
17 people that are using this are academics or in
18 business. They are already on broadband.

19 Health -- they talked about online
20 assessments of cholesterol and enzyme levels.
21 Again, you don't have to send a whole lot of
22 information back and forth. Phone lines will work
23 for that.

24 Robotic surgery -- yes, I doubt this
25 will be done from home.

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1 (Laughter.)

2 And hospitals, they already have
3 access.

4 Homeland security doing biometric
5 information at airports -- well, one, that
6 technology isn't ready. But, two, it's not as if
7 airports aren't already wired for high-speed
8 access.

9 And then, my personal favorite, under
10 the new hopes and new possibilities, they talked
11 about video e-mail helping millions of illiterate
12 Americans challenged by instant messaging. Can I
13 respectfully suggest that it would be better to
14 teach these people how to read rather than getting
15 them to do videoconferencing with high-speed
16 broadband?

17 So I think that there is no prognosis
18 that we have some great application that's about to
19 happen that we should be all excited about, and
20 that's okay.

21 Next slide, please.

22 Remember, we do not have a chicken and
23 egg problem. The fact is there are 24 million
24 people who have access to it at home, plus
25 countless millions more who have access to it at

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1 work or at school. And so if there is some great
2 application that's ready to go, people can find it.

3 That's a big enough market out there for people to
4 make the applications for.

5 Moreover, we don't have any urgency.
6 Seventy-five percent of people say they're happy
7 currently with their dial-up. When it was given
8 away in Georgia, only 29 percent of the people
9 signed up for broadband. So it's not as if you
10 have a screaming demand for this.

11 Now, I do actually have some
12 suggestions for industry here, if they actually
13 want to make this happen. Guess what? Get some
14 content. Murdock figured this out with Sky TV. He
15 went and got sports. Nintendo got Super Mario.
16 Sega got Sonic the Blue Hedgehog. What you need is
17 good content, and the content that people want is
18 obviously movies and music.

19 And guess what? Only a billion CDs
20 were sold last year and a billion movie tickets.
21 So you could buy all of the movie tickets and the
22 CDs and give them away at a cost of about \$5
23 billion. And if you think it's \$5 billion to
24 justify \$100 million of investment to get demand,
25 this is pretty cheap.

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1 You could even start a little cheaper
2 by buying old TV shows and old movies, and that
3 would probably cost less than a billion. So to put
4 this in context, if you're looking for a killer
5 app, we kind of know what it is. It's movies and
6 music, and it's not that expensive. And it doesn't
7 need to be subsidized. The industry can do it all
8 on their own.

9 We had a Field of Dreams strategy where
10 people built it hoping the demand would come, and
11 they were wrong. They were way wrong. That's
12 okay. It's there. It's not going anywhere. And
13 when the demand comes up, we'll have the capacity.

14 Now, that leads me to respectfully
15 disagree with the conclusions from the Department
16 of Commerce Office of Technology Policy, which they
17 say, "Actions to accelerate demand are justified
18 and valuable." I don't think so. I think they're
19 neither justified, nor valuable. We have all we
20 need to make demand happen today.

21 Next slide.

22 Turning to the lack of competition,
23 local competition, I think it's an obvious
24 statement but bears repetition that incumbents
25 dislike competition. Nobody likes competition

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1 except consumers. And we see that they don't like
2 competing with themselves. Every time you put out
3 a DSL line, you're probably losing a second phone
4 line, so the marginal revenue is relatively low.

5 My best example of that is Pagoo and
6 Callwave, two companies that came up with a clever
7 idea that if you're online and your phone is busy,
8 they have your message delivered to them, which is
9 then e-mailed to you. And so you can get a message
10 while you're online saying that somebody is
11 actually trying to speak to you on the phone.

12 This is a great application. It
13 actually allows you to be online without having to
14 have a second phone line. And, of course, the
15 phone companies don't like that. And so,
16 therefore, they did nothing.

17 Now, this is the type of customer
18 service application that we should have the Bell
19 Companies inventing. It's sort of embarrassing
20 that it takes small startups to come up with these
21 type of services.

22 It's also important to recognize that
23 the benefits of competition don't go to the
24 competitor. For the most part, entering into long
25 distance is not going to make you a lot of money.

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1 The benefits go to the customers. We've seen the
2 status quo actually is not impressive.

3 In a report I read by Bob Hall and
4 Professor Lehr, local prices are up nine percent,
5 while long distance prices are down nine percent.
6 So recognize that there isn't a lot of gain from
7 entry in competitive market, and the more
8 competitive the market is the less gain there is
9 for entering. It's kind of one of those paradoxes.

10 So if you succeed in making the market
11 competitive, don't expect a lot of entry.

12 There is a question of whether or not
13 adding competition will lead to more investment. I
14 think I come down on the view that it does because
15 that's the only way to protect yourself. But
16 whether it does or it doesn't to me is secondary.

17 The important point is that there will
18 be gains to consumers who will get lower prices,
19 and there's plenty of investment that's already
20 taken place. Meanwhile, the consumers have not
21 gained enough from competition.

22 One possibility is that wireless is our
23 hope. But here I'm not impressed either.
24 Basically, pricing is just a disaster. Most of the
25 money that's made is done by fooling people. The

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1 majority of people are on the wrong plan. Does
2 anybody in this room have an idea how much they pay
3 per minute for wireless? I venture the answer is
4 no.

5 And the reason is is because you can't
6 take how much you spend per month versus -- divided
7 by minutes. I know I pay between five and 10 cents
8 a minute for long distance. Nobody has an idea for
9 wireless.

10 If you talk more and you go over your
11 minutes, it's 35 cents. So initially it's 10, and
12 then up to 35. We have incredibly complicated
13 wireless pricing, and that's one of the things
14 that's cutting it back from being more competition.

15 So let me turn to my conclusions.

16 One more slide, please.

17 The Energy Star program was a terrific
18 program to help people understand how to do
19 refrigerators. Basically, you could understand
20 what you would pay in electricity, and, therefore,
21 know it's worth paying extra money for a high
22 efficiency refrigerator.

23 We should have the same type of
24 voluntary Energy Star pricing for wireless, where
25 all phone companies are required to report the

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1 average amount paid by customers on each plan per
2 minute and how much they pay per plan. Just
3 because you are on a \$39 plan doesn't mean on
4 average people pay \$39. So giving information
5 stickers telling people how much they pay.

6 Secondly was you put more pressure, not
7 less pressure, in terms of opening up local
8 markets. No reason to relax antitrust, and we
9 should find ways to reward entrants, because they
10 are actually not going to be the big beneficiaries.

11 And, finally, the biggest productivity
12 enhancer of our communication structure these days
13 is e-mail, and e-mail is drowning in spam. And
14 this is a simple solution that I believe exists,
15 which is to put small postage on e-mail. And, in
16 essence, that postage can be denied when people
17 actually are happy to have gotten that message.
18 You can have open gates to anybody who is a non-
19 spammer, a dot edu, an AOL.

20 But, basically, figuring out how to
21 make the things that we have today work better is,
22 I believe, where our priorities should be.

23 Thank you so much.

24 CHAIRMAN POWELL: Thank you, Professor.

25 Now I'd like to introduce Professor Hal

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1 Varian, who is the Dean of the School of
2 Information Management and Systems at the
3 University of California, Berkeley. He is also a
4 professor in the Haas School of Business, professor
5 in the Department of Economics, and holds the class
6 of 1944 professorship.

7 Professor Varian has published numerous
8 papers in economic theory, industrial organization,
9 financial economics, econometrics, and information
10 economics. He authored two major economics
11 textbooks. His recent work has been concerned with
12 the economics of information technology, the
13 information economy, co-author of the best-selling
14 book on business strategy Information Rules -- a
15 terrific book, by the way.

16 We're happy to have you with us.

17 PROFESSOR VARIAN: Thank you. So I'm
18 going to give a fairly quick talk, because some of
19 the points have already been mentioned. I want to
20 -- first slide, please.

21 I want to talk about the problem, the
22 current situation, some possible resolutions, and
23 then conclude.

24 Next slide.

25 Well, there's two dimensions to the

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1 problem. One is the supply side. We've heard
2 about that. Excessive investments during the late
3 1990s, there were new entrants, it's just as cheap
4 to put in 266 strands of fiber as 24. Some people
5 say this was dumb. It wasn't so dumb. It was just
6 that the incremental cost was very low, and each
7 individual company has certainly found it in its
8 interest to add this capacity.

9 At the same time, we saw dramatic
10 increases in switching speed, and wavelength
11 division multiplexing came along, which increased
12 the supply of existing bandwidth, and we've ended
13 up with this glut in long haul fiber. Although
14 it's important to emphasize that there are some
15 other areas of the network that are still poorly
16 served. For example, there are many customers
17 complaining about not being able to get access to
18 sufficient metro level fiber capacity.

19 Next slide.

20 Meanwhile, on the demand side, we saw
21 much less demand than forecast. CEOs were going
22 around telling us that internet traffic was
23 doubling every 90 days. Well, if you think about
24 it, that means 16 times a year, that means 256
25 times in two years. It just doesn't compute.

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1 There's a nice paper by Andrew Lisko at the
2 University of Minnesota, who has tried to track
3 down the source of this urban legend.

4 Although it was true that for many
5 years -- in fact, even this year it's likely true
6 the internet traffic is doubling every year.

7 But video on demand, dramatic takeoff
8 of broadband of the home, ubiquitous
9 teleconferencing, and other promised applications
10 never materialized.

11 Next slide, please.

12 So the result, of course, is that for
13 many firms in the industry that total cost,
14 including that sunk cost, exceed the revenue.
15 That's not viable. So we have to find out some way
16 to increase revenue or decrease cost.

17 Next slide.

18 Well, what about the revenue side?

19 Next slide, please. Thank you.

20 There are some unattractive options.
21 We could have price supports. There is a long and
22 sordid history of that in regulated industries. I
23 don't think it will fly today. We could change
24 merger guidelines to allow sufficient oligopoly
25 power to push prices up. I know there are some in

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1 the industry that are arguing this point. I don't
2 think it's a very attractive solution.

3 The attractive option, of course, is to
4 try to encourage new services that can cross-
5 subsidize those losses on legacy investment. So
6 there's no silver bullet, as we heard before, but
7 there may be a lot of little BBs.

8 And I mention one here -- camera
9 equipped cell phones. This year, 37 percent of the
10 cell phones sold in Japan have cameras. It's the
11 big fad. Docomo charges 40 cents a photo to host a
12 photo on their web server, and people can have a
13 lot of fun taking pictures of each other and
14 sending them back and forth. And I saw some
15 numbers that said the average user of a cell phone
16 -- of a photo equipped cell phone spends \$11 more a
17 month on service than other users. So it is a
18 revenue source that's attractive.

19 I'm going to mention another such
20 source in the next slide. Residential broadband
21 won't bail us out. We just heard Barry's view, and
22 I agree completely with everything he said. We ran
23 a project called INDEX, Internet Demand Experiment,
24 back in 1998, and we -- that was the only
25 controlled experiment of how much people were

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1 willing to pay for broadband.

2 At that time it was 128 kilobits per
3 second service. We had about 100 users. They were
4 university people, prime -- early adopters of
5 technology. We found that there was a very small
6 willingness to pay for broadband with the
7 applications then available, and the one exception
8 was we did find that home office workers and
9 telecommuters had a high -- much higher willingness
10 to pay.

11 And one of the things I urged the ISPs
12 to do was to put together a home office package
13 with some virtual private networking, a deal with
14 Kinko's, a deal with FedEx, do some market
15 segmentation, and charge a premium price for the
16 users that had a higher willingness to pay --
17 straight MBA 101 stuff.

18 Now that was pre-Napster, pre-KaZaA,
19 but the point still holds. Those are not viable
20 services on which to build an industry, and there
21 is some demand for broadband, of course, but it
22 saturates at about 15 percent. And it should say
23 internet households there -- 15 percent of
24 households currently use the internet at current
25 prices.

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1 Next slide.

2 So what you need are compelling
3 applications. Copyright violations are the killer
4 app, but they're getting killed.

5 (Laughter.)

6 You need a lower price. Twenty-five
7 dollars is a great price point. There is
8 substantial demand at that point, but something
9 significantly more than \$30 just doesn't work.

10 If you look at Korea, we all know
11 that's the most broadband intensive country in the
12 world, but why is that? Well, they sell DSL light
13 at \$23 a month. So, of course, the price point is
14 there, and it's much more attractive from a cost
15 point of view.

16 And if you look at prices in the U.S.,
17 they're going the wrong direction. They're going
18 up. Last year price -- average price of
19 residential broadband has gone up from \$50 to \$55.

20 Next slide.

21 What about reduced costs? Well, you
22 could try to reduce operating cost. That's great.

23 But how do you do it? You could reduce fixed
24 cost, and what that really means is mark those
25 fixed assets to market. That's the polite way of

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1 saying it. That's what economists say. But, of
2 course, the more popular term is bankruptcy.

3 Shareholders lose, bondholders lose,
4 but the public gets cheap telecom. And Larry White
5 is going to say more about this, so I will defer
6 further discussion until he gets to it.

7 Next point. There is one caveat I want
8 to raise about bankruptcy, and that is the
9 possibility of competitive bankruptcy, and the idea
10 there is that if competitors cut costs by doing
11 bankrupt, then I want to as well.

12 People have compared the telecom glut
13 of the 1990s and 2000 with the railroad glut in the
14 1890s, and competitive bankruptcy was endemic at
15 that time. There were more miles of track laid in
16 1880 than in any other decade in U.S. history, and
17 in 1890 there were more miles in bankruptcy.

18 We already heard Robert Konefal talk
19 about the CLECs. When they go bankrupt but the
20 capacity is still there, it gives them a cost
21 advantage when they come back. And so if you
22 happen to be a surviving CLEC, it's in your
23 interest to go bankrupt.

24 This could be an interaction with
25 corporate organization, bundle losers into a

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1 subsidiary, and then put it into bankruptcy. So
2 these are not reasons not to engage in financial
3 reorganization, but I think it's important to
4 recognize you will probably get more of it than you
5 expect.

6 Last slide. What can the FCC do? Try
7 to reduce transactions costs of financial
8 organization. Give clear guidelines for asset
9 transfer. Perhaps you can explicate the process in
10 some way. We've got some of the world's experts on
11 options working for the FCC.

12 But be warned about this point -- that
13 there will probably be more financial
14 reorganization than you might anticipate, just
15 looking at the numbers, if it confers a competitive
16 advantage. And it's better to recognize those
17 losses sooner rather than later.

18 So we can skip the summary. I've
19 already said it. Thank you.

20 CHAIRMAN POWELL: Thank you, Hal.

21 Now I want to introduce Kim Wallace,
22 who is the Chief Political Analyst and Managing
23 Director, who joined Lehman Brothers in May of
24 1994. As Lehman Brothers' chief political analyst,
25 Mr. Wallace directs the firm's Equity Research U.S.

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1 political analysis group responsible for analyzing
2 legislative and regulatory events important to
3 investors. He focuses on macroeconomic policy,
4 telecommunications, antitrust, trade policy, and
5 the financial services industry.

6 Welcome, Kim.

7 MR. WALLACE: Thank you. Good to see
8 you again, Michael, Commissioners.

9 I have a prepared text that you have
10 before you. I won't read from that. It'll save us
11 some time and some considerable redundancy. The
12 colleagues before me have done a good job of
13 covering the landscape.

14 My group and I live on that third rail
15 that Rob was talking about -- policy analysis.
16 Staying away from what ought to be done is,
17 unfortunately, not something that we have a luxury
18 to do. Obviously, we aren't advocates. We merely
19 look at what the policy process may issue, and then
20 help institutional investors think through what
21 might be their position afterward.

22 As such, I'll speak from the three
23 slides that I've prepared, and if you could put up
24 the first one.

25 You know, looking back may help us

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1 understand a little bit of why we got there and
2 where we may need to go in the future. If you look
3 at the three drivers of the telecom boom in the
4 late half of the last decade, they were tied to
5 three phenomena -- capital formation, 1995 through
6 1999 was the last leg of a 20-year bull market.

7 Technology developments in the 1990s
8 were spurred by both productivity developments and
9 then capital formation, giving more money to some
10 of those good ideas, and some of that money to very
11 bad ideas.

12 And then lastly, and I think as
13 importantly, were the rules changes. From 1995
14 through 1997, the European Union, the United
15 States, and the WTO, all of those rulemaking bodies
16 changed their rules and telecommunications policies
17 -- one sector, other sectors, but especially
18 telecommunications -- in order to spur competition
19 and to increase choice, not just within their
20 sovereign areas but across the world.

21 Those drivers are still at work today.

22 Obviously, they have gone to other places in some
23 regards, particularly when it comes to capital
24 formation. But when the return comes to the
25 telecommunications industry, those three drivers

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1 will still be there.

2 Investors talk about certainty
3 constantly. Those of us in the capital markets
4 look for certainty. That's the best way to put a
5 value on any asset, if you know what certainty is
6 going to go around it, whether it's event risk or
7 risks that are endemic to that asset.

8 However, when it comes to
9 telecommunications policy, that becomes difficult
10 because of strategic defensive maneuvers made by
11 the several players in the marketplace. So that
12 certainty coming off the desk of the FCC isn't
13 really certainty anymore until it comes off the
14 desks of some justice somewhere.

15 As much as we would like certainty,
16 it's very difficult to drive down to that level as
17 long as that system is still in place. And I don't
18 see that system going away any time soon.

19 The bottom half of the slide has been
20 covered by my colleagues before me. I won't go
21 into it. But there are several contributors to the
22 industry's decline. One could argue I think
23 reasonably that policymaking isn't one of them.

24 Certainly, people who are in a bad way
25 right now from a balance sheet perspective can

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1 point to any number of policies or policymakers
2 that they would like to have difference with, but
3 understandably there are macroeconomic and
4 microeconomic forces in telecommunications that are
5 in line before you all, in my view.

6 Next slide.

7 Because there are so many players, and
8 most of those players are well funded at least when
9 it comes to the policymaking process, they all have
10 access to you and to the policymakers on Capitol
11 Hill, and for that matter the judicial system.

12 It is highly unlikely that the
13 legislature -- Congress -- is going to be able to
14 make new law anytime soon to significantly affect
15 policymaking, which means the job will fall on you,
16 your brothers and sisters at the state level, and,
17 of course, the ever-present courts.

18 That's not to say that the legislature
19 didn't have its day. The 1990s were very active,
20 and we'll go through some of that in a minute with
21 the 1992 Cable Act, the '96 Telecommunications Act,
22 and then, of course, the 1999 Satellite Home
23 Viewers Act.

24 The legislature put its stamp on the
25 telecommunications industry, and, as I said before,

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1 here in the U.S. it was consistent with what we saw
2 around the world, or at least in the Western world
3 -- that is, competition, or at least pro-
4 competitive policies, and then choice for
5 consumers.

6 Competition and choice will likely
7 continue to dominate your decisions, because those
8 models obviously are the best. The difficulty, of
9 course, for a participant in the industry is that
10 as you all search for perfect competition, if you
11 will, that since the drive down the value of the
12 commodities of the people in the marketplace sell.

13 There is going to be a give there. It's hard to
14 tell what that is sitting here today.

15 The last point on this slide that I'd
16 make is that as terrible as the situation is for a
17 lot of the players in the telecommunications
18 market, it's very likely, as many people have said
19 before me, to change significantly until the
20 macroeconomic conditions of the country and the
21 world do, and that includes the investment
22 decisions of both businesses and individuals. It
23 doesn't look like we are there yet. Certainly, it
24 does look like policymakers have taken some steps
25 to move that forward.

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1 Next slide, please.

2 One of the things we attempt to do with
3 institutional investors is to take policies made
4 and put them on a map, if you will, so that we can
5 build a road sign for people as to the signals you
6 all and others are sending about investment
7 opportunities, and, for that matter, risks.

8 If you look at some of the points on
9 this slide -- and, obviously, this is selective.
10 There were several other actions taken by the
11 Commission, taken by the legislatures at the state
12 level, and by Congress that aren't on here.

13 But if you look at these five or six
14 acts that were taken in the two decisions by the
15 Supreme Court, it's very clear this trend toward
16 competition and consumer choice has been decided
17 upon by the three branches of the government and is
18 very unlikely to change. Those signals have been
19 sent throughout the markets. And although on a
20 temporary basis people would blame some of those
21 signals for bad decisions made, as many have said
22 before me, some of those decisions came because
23 perceptions were unrealistic about the signals that
24 had been sent.

25 I would just close by saying the

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1 lessons learned, or at least the desired result,
2 for robust facilities-based competition, you end up
3 with a platform whereby there is wireless
4 performers, obviously there will be wire line
5 performers, and those wire line performers will
6 operate off of a telephony network, as well as the
7 cable network.

8 It's hard to see how it could get much
9 better than that if your end goal is competition
10 and consumer choice.

11 I'll stop there.

12 CHAIRMAN POWELL: Thank you very much,
13 Kim.

14 I'd now like to welcome Lara Warner.
15 She's a director at Credit Suisse First Boston in
16 the Equity Research Department. She joined the
17 firm in April of 2002. Ms. Warner covers the cable
18 television industry. She was ranked the top up-
19 and-comer analyst by her clients for coverage of
20 the cable industry by institutional investors in
21 2001.

22 Welcome, Lara.

23 MS. WARNER: Thanks very much.

24 Just to put it in perspective, I'm the
25 shoe salesman selling the wing tips to Rob down at

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1 the end of the table.

2 (Laughter.)

3 I'd go for the penny loafers, Rob, just
4 to be clear.

5 Thank you very much for having me here
6 today, and I have lived on many sides of this
7 debate. Prior to covering cable, I actually was in
8 the telecommunications industry, both at a
9 corporate level as well as on the Wall Street side,
10 and have watched this process now for many, many
11 years, and would just like to give my perspective,
12 most of which has been mentioned by my colleagues,
13 but with particular focus I think on the consumer
14 side of this debate.

15 We've talked a lot about the
16 overinvestment, much of which had to do with the
17 business telecommunications industry. So as I go
18 through, I'll try and point out more of a consumer
19 perspective.

20 I would agree, obviously, that the
21 capital markets played a very large role in terms
22 of overfinancing this industry, and I would argue
23 that, really, very little of it had to do with the
24 fault of any policymakers. I recall that, you
25 know, we used to use the term "Build it and they

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1 will come," and I think many networks were
2 constructed in anticipation of facilities-based
3 competition, although much of that was for the
4 business market.

5 On the consumer side, I think you saw a
6 fairly rational buildout of the wireless networks
7 based on demand, and cable networks were, in
8 essence, built out: a) because they anticipated
9 competition, but b) because we also had fairly easy
10 access to capital.

11 I would summarize and say that we, as a
12 capital market structure, no longer assessed risk
13 appropriately, and that was really our main issue.

14 We've talked a lot here today about the fact that
15 we were very good on the supply side. We were not
16 very good on the demand side.

17 We assumed the pie was dramatically
18 expanding, but we actually did some work that
19 suggested that on the consumer side, even though we
20 had significant adoption of narrow band, wireless,
21 and broadband, much of that was fueled by the
22 dramatic reductions we saw in the last five to
23 seven years on the long distance side of the
24 business.

25 And if you look at the way consumers

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1 spend across all services and communications on a
2 monthly basis, they've been pretty consistent in
3 terms of how much they've been willing to spend
4 every year. So that market was not expanding as
5 dramatically as we thought.

6 So today the stocks are down at lows
7 for both telecom and cable, and I think what you
8 see is the market anticipating more and more head-
9 to-head competition, with probably a more critical
10 assessment of risk and maybe overassessment of the
11 risk.

12 Cable stocks are down due to satellite
13 competition. RBOCs are down due to impending
14 cable, wireless, and IXC competition, and so on and
15 so forth.

16 And I think it's fair to ask what has
17 changed. My view is that, you know, obviously
18 these threats of competition existed before. The
19 difference is our mentality as a capital market
20 structure.

21 Number one, I think this is very key.
22 The market is really unwilling to believe in future
23 cashflows from new services until they appear.
24 When companies talk, even particularly on the cable
25 side, about opportunities for new services using

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1 existing broadband capacity, I think generally the
2 response by markets has been lukewarm at best,
3 because we don't believe anymore in things like
4 videoconferencing and other new applications until
5 we see how consumers literally adopt those
6 services.

7 I think, therefore, we believe there is
8 little to no expansion right now of the industry
9 pie. And, consequently, given all players in the
10 industry are incumbents right now, they all have
11 something to lose. So, consequently, I think many
12 people believe that competition is viewed as a zero
13 sum game broadly across the industry today.

14 So how can you, as the FCC, improve the
15 situation? I think, first of all, in terms of the
16 stock prices, it's important to recognize that your
17 goal of introducing competition, I would argue,
18 runs contrary to market wishes.

19 If we're totally honest, the market
20 does not like competition introduced into a
21 regulated industry -- I think we touched on this
22 earlier -- because it does threaten returns in the
23 short term, and so I would caution you to take our
24 reactions and at least sift through them a little
25 bit given that fact.

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1 I think also that the lack of certainty
2 has only exacerbated the situation, and this is
3 probably an area where you can help. As we listen
4 and, frankly, are buffeted by the rhetoric on both
5 sides of the fence, whether it's from the incumbent
6 long distance players, the cable operators, or the
7 RBOCs, they all have their unique position as to
8 who wins, who is right, and we are not able to
9 assess it in the abstract and independent eye of
10 the market in terms of competition.

11 So one certainty is very important, and
12 as soon as possible I think would also be something
13 I'd underscore.

14 Secondly, in terms of the balance
15 sheets, I would argue there is very little you can
16 do here as well. The industry has stalled the
17 investment cycle, as we have heard repeatedly, and
18 I would say we've put the industry on a proverbial
19 diet.

20 I think the challenge is right now that
21 basically what's left for these companies to do is
22 make very hard decisions around their business, cut
23 back capital spending, sell off non-performing
24 businesses, generate free cashflow, pay down debt,
25 and at that point I think you'll see the markets

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1 much more open to incremental investment by the
2 industry. But, again, very little I think that you
3 can do in terms of that process today.

4 That leads me, really, to the third
5 question, which is, how do you encourage investment
6 and return us to a growth industry?

7 And I would argue that while the
8 markets don't like it, history seems to say that
9 competition is the only really factor that drives
10 investment over time. We saw it in the cable
11 industry as they upgraded their networks, the RBOCs
12 deploying DSL, and you may one day have a cable
13 industry that is spurring on the RBOCs to think
14 about how they may run their consumer business on a
15 more efficient basis.

16 And, obviously, the UNE-P debate has
17 hit a nerve in this area. I just want to make a
18 couple of comments on this topic, and I think this
19 is a really large challenge for all of you, which
20 is whether your goal is competition today or
21 facilities-based competition down the road.

22 I can say, I don't know which one makes
23 sense from your perspective, but the timing, I
24 believe, is going to be very different. In my
25 opinion, the market will be reticent to fund any

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1 additional capital for facilities-based
2 competition, because if you look at the slides
3 we've been seeing, we did fund quite a bit of
4 facilities in the marketplace on both the business
5 and consumer side.

6 As it relates to cable, which is
7 something we've been pretty focused on, I think
8 while telephony is an opportunity that cable will
9 not turn away from, because it, frankly, is their
10 largest opportunity for growth, they face the
11 similar challenge of needing to pay down debt in
12 the near term to really give themselves the
13 flexibility to fuel incremental investment.

14 I would also point out that while that
15 process may take several years, they are being,
16 frankly, threatened by a competitor in their core
17 business -- the video business. And so as a cable
18 operator, I think the challenge in three to four
19 years when you do have incremental capital is:
20 where will you deploy it, and in what size and
21 scope? Particularly if your core business remains
22 under threat as it represents the vast majority of
23 your revenues.

24 We are also waiting for IP telephony,
25 which I think is clearly a technology path that has

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1 taken a lot longer than anyone thought, and that's
2 something we continue to wait for, frankly, before
3 investing incrementally.

4 So, in summary, I would say what the
5 market needs is certainty, the ability to see
6 resulting competition proceed in the market, and
7 let us judge the results versus being buffeted by
8 the rhetoric and projections of all the companies
9 that are involved today. So your challenge, I
10 think, is, again, provide certainty, let the
11 companies compete, and let the markets determine
12 which management teams innovate and, therefore,
13 survive.

14 Thanks.

15 CHAIRMAN POWELL: Thank you very much.

16 Finally, I'd like to introduce Larry
17 White, who is the Arthur Imperatore -- did I
18 pronounce it right? Professor of Economics at New
19 York University Stern School of Business.

20 During 1986 to 1989, he was on leave to
21 serve as board member, Federal Home Loan Bank
22 Board. And during 1982 to '83, he was on leave to
23 serve as Director of the Economic Policy Office of
24 the Antitrust Division, U.S. Department of Justice.

25 Welcome, Larry.

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1 PROFESSOR WHITE: Thank you. Thank
2 you, Mr. Chairman, Commissioners of the FCC.

3 When you're the last person on an
4 impressive panel like this, you often worry there
5 are no good lines left. Well, I'll try just to at
6 least leave a few.

7 Next slide. Oh, okay.

8 We've already heard the basic reasons
9 for why we're here today -- a large expansion of
10 capacity, a lot of investment, technological change
11 compounding this, much slower growth than was
12 expected, the slowing of the economy that Dr.
13 Wilkie talked about earlier, and then, on top of
14 that, the corporate governance and accounting
15 revelations.

16 There are no magical, painless
17 solutions. As Commissioner Copps said earlier,
18 there is no silver bullet. But I think there are
19 three important principles that the private sector
20 and the public sector should adhere to.

21 Next slide, please.

22 The first is acknowledge and recognize
23 the losses and the pain, and then move on.

24 Second, follow good antitrust
25 principles.

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1 Third, do not delay efficiency-
2 increasing developments in spectrum allocation and
3 usage.

4 Next slide, please.

5 Those losses are there. They have to
6 be absorbed by someone -- the owners/shareholders,
7 first, then the lenders/creditors. And that's the
8 way it should be. Sooner and faster is better.
9 That way companies and markets can then recognize
10 true prospective marginal costs, and we can get the
11 lower prices, expanded demand, greater utilization,
12 greater economic efficiency.

13 Next slide, please.

14 Delay is going to stretch out the pain,
15 but not avoid it. Let's all remember: investors
16 do not deserve a return. They make risky
17 investments. Often they succeed. Sometimes they
18 lose, and that's the way it ought to be in a market
19 economy.

20 And to prop up losing investors is to
21 privatize the gains, socialize the losses, and this
22 is a recipe for inefficient decisions and
23 inequitable outcomes.

24 Next slide, please.

25 Sizeable bankruptcies already exist.

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1 There are possibly more to come. But it's
2 important to remember they do not mean the
3 shuttering of a company, so long as the company has
4 prospective value.

5 I read in The Wall Street Journal last
6 week that I believe 360 Networks looks like it's
7 going to be emerging from bankruptcy as a going
8 concern. And bankruptcies provide resolution for
9 people, for companies, for customers, for
10 suppliers, and then everyone can move on.

11 Now, I know it's not a lot of fun, and
12 it's not a perfect process. There can be glitches,
13 but it does provide resolution.

14 Now, just so you don't think we're all
15 just one big happy family here, I want to take a
16 little bit of issue with what Hal Varian -- not
17 what he said, but what he wrote down on one of his
18 slides about the problem with bankruptcy, about
19 competitive bankruptcy.

20 I don't think you need -- you want to
21 look at it as a problem. It's simply there. And I
22 think the really important point here is simply
23 that the logic of marginal cost pricing is going to
24 will out in any kind of competitive process. And
25 that's really what's going on.

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1 Bankruptcy allows that marginal cost
2 pricing to happen a little bit faster, but it's
3 going to happen anyway. And, again, sooner is
4 better than later.

5 Next slide, please.

6 How did talk about the 19th -- oh, can
7 we get the next slide? There we go.

8 The 19th century railroads -- he's
9 right on the mark there. There was overbuilding,
10 and not as much demand as was expected,
11 bankruptcies. We had surviving railroads, and the
12 railroad industry went on for the next half century
13 to be the center of transportation for passengers,
14 for freight, and even today 100 years -- over 100
15 years later is central to freight transportation.

16 Next slide, please.

17 A more recent example that I lived
18 through, and my back side is plenty scarred from
19 the experience, the savings and loan debacle. We
20 now recognize that it was excessive commercial real
21 estate investments and inadequate safety and
22 soundness regulation in the early 1980s that
23 brought on the crisis, resulting in overbuilt,
24 overpriced commercial real estate. See-through
25 office buildings were a common phrase in sunbelt

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1 cities as of the mid-1980s. And we had many
2 hundreds of insolvent savings and loans.

3 Next slide, please.

4 There was a lot of political pressure
5 at the time to go slow, give time the opportunity
6 to let conditions turn around. And there were
7 fears that selling commercial real estate would
8 only depress prices further.

9 But markets weren't going to be fooled.

10 They already knew there was the real estate
11 overhang, and that that was going to have a
12 negative effect on prices, and delay would have
13 allowed more risk-taking by insolvent savings and
14 loans and a continued overhang of real estate.

15 Next slide, please.

16 The cleanup of insolvent savings and
17 loans took too long. But when it did finally get
18 underway, it proceeded expeditiously.

19 The Resolution Trust Corporation, the
20 RTC, did move expeditiously to dispose of
21 commercial real estate that it inherited from the
22 insolvent S&Ls. And rapid actions allowed both
23 sectors -- the S&Ls and commercial real estate --
24 to emerge stronger and sooner.

25 A current example -- next slide. There

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1 we go. The Japanese banks. After the Japanese
2 stock market and real estate market bubbles popped
3 in the early 1990s, the government of Japan should
4 have forced banks to acknowledge losses, should
5 have dealt expeditiously with insolvent banks, and
6 should have found new owners for insolvent banks.
7 And then the Japanese banks could have resumed
8 their proper lending role to the Japanese economy.

9 Next slide.

10 Unfortunately, instead, the Japanese
11 government dithered. When actions have been taken,
12 they have been too little and too late. Japanese
13 banks remain saddled even today with bad loans on
14 which they have not yet fully recognized losses.
15 The banks remained moribund and reluctant to lend,
16 and the Japanese economy remains stagnant. And
17 this is not a pattern to be followed.

18 Just at least once a week, sometimes
19 twice a week, we see headlines in The Wall Street
20 Journal, The New York Times, about the stagnant
21 Japanese economy, the stagnant Japanese banks. Now
22 they're going to do something, and they don't do
23 it, and they're paying a large price for that.

24 Next slide, please. Next slide. Oh,
25 okay. Yes. There we go. Okay.

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1 My second major point -- follow good
2 antitrust principles. As the Chairman indicated
3 earlier, some consolidation is warranted, but
4 financial difficulties are not a good excuse to
5 abandon sound antitrust principles. The Department
6 of Justice-FTC, horizontal merger guidelines,
7 provide sensible guidance to permit efficient
8 combinations and to avoid the creation of market
9 power.

10 Slack antitrust standards, by
11 comparison, for other regulated industries -- for
12 example, the railroad and airline industries --
13 mergers there with slack standards have had
14 unfortunate outcomes.

15 Next slide.

16 My last point. Don't delay efficiency-
17 increasing developments for spectrum. Substantial
18 improvements continue to be possible. They can
19 come about through improved technologies and
20 through improved regulation and deregulation. And
21 don't delay them because of feared effects on
22 fiber-optic cable, because the efficiency
23 advantages are important to have regardless.

24 Spectrum auctions carried out by this
25 Commission for the last decade are a good start.

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1 But they're only a start. They don't go nearly far
2 enough, because they don't apply to nearly enough
3 spectrum.

4 The right way to proceed is to think of
5 spectrum as property to propertyze the spectrum, to
6 deal with the public aspects in a property system
7 just the way we deal with the public aspects of
8 real estate. There is room for government. There
9 is room for the private sector in real estate. The
10 same is true for the spectrum.

11 And so last slide, please. Next slide.
12 Yes.

13 Again, my three major points.
14 Acknowledge and recognize the losses and the pain
15 and move on. Follow good antitrust principles.
16 And do not delay the efficiency-increasing
17 developments in spectrum allocation and usage.

18 Thank you very much, Mr. Chairman,
19 Commissioners.

20 CHAIRMAN POWELL: Thank you very much,
21 Professor White.

22 I'd like to note a monumental
23 achievement. We finished exactly on time. That's
24 what you get when you've got a panel committed to
25 efficiency and productivity, I guess.

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1 We now will have a period in which
2 we'll hopefully have a productive dialogue. And I
3 would suggest to my colleagues that, rather than
4 just going in order that the floor is available to
5 anyone who might have a question, and just feel
6 free to jump in at any moment that it moves you.

7 Does anybody have a question they'd
8 like to start with?

9 COMMISSIONER ABERNATHY: Actually, I
10 have a question based on all of the discussion that
11 we had today. And my experience in this industry,
12 it's always been that the telecom industry was
13 capital-intensive, and this was driven by
14 investment in new technology and new capacity.

15 And yet now, according to a number of
16 you, there is really no growth expected for any of
17 the industry, whether you look at local or long
18 distance or broadband. And this is due,
19 apparently, to lack of access to capital and the
20 level of competition and no expansion of the pie.

21 So, then, my question would be: if
22 there's no more infrastructure investment, at least
23 in the near future as you see it, does that mean
24 that regardless of what we do with pricing, we're
25 not going to see infrastructure investment for at

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1 least -- it won't stimulate that? And if it won't,
2 maybe we should do it anyway, because it's the
3 right thing to do.

4 But what else is there? Does that mean
5 that in order to stimulate it, maybe we shouldn't
6 even be thinking about infrastructure investment?
7 Maybe we should be thinking more along the lines of
8 mergers. But then, what does that do to the
9 competitive environment?

10 So those are my questions.

11 MR. GENSLER: Can we just answer or --

12 COMMISSIONER ABERNATHY: Yes.

13 MR. GENSLER: I would actually differ
14 with one of your premises. I think there is good
15 unit growth and unit consumption in many areas. I
16 mean, fixed wire line is shrinking, but everything
17 else is growing. I think pricing gets to the heart
18 of it. And without proper pricing, the returns on
19 capital aren't good enough.

20 And, you know, the system of wholesale
21 pricing on UNE-P gets at part of the issue, but
22 even rate rebalancing, which in many parts of the
23 world they let happen.

24 Now, we have this issue with state PUCs
25 where no one would get reelected at that level if

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1 they ever let a rate rebalance happen. But
2 separate from that issue, many parts of the world
3 find ways to get around this and give, you know,
4 price cap regimes with rate rebalancing, and you
5 get investment if the prices get closer to, you
6 know, what would be needed for proper reinvestment
7 rates.

8 COMMISSIONER ABERNATHY: But I thought
9 you had said that the goal, really, what you were
10 pushing for right now was you want them to decrease
11 debt and get more of the revenues back out into the
12 economy, into the investment community. But that
13 seems to be inconsistent with the decision to
14 invest in infrastructure.

15 MR. GENSLER: Absolutely. But what we
16 have is, you know, you have a product migration
17 from a very heavily regulated but shrinking fixed
18 wire line to competitive wireless data, etcetera.
19 And you have a mix shift going to lower margin,
20 lower returns on capital.

21 That's just a natural product
22 migration, but then we sit and we sort of treat the
23 corpus, which is shrinking, as if it can pay for
24 everything else, and we give it low rates that
25 aren't allowed to change and wholesale rates that

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1 make it even harder. It makes it hard for those
2 companies to think about having enough capital to
3 reinvest in the new product lines.

4 PROFESSOR VARIAN: To answer your
5 question a bit more peripherally, I would say that
6 if you've got an excess of pie, then invest in ice
7 cream. There are still a lot of complementary
8 services that could be very valuable, particularly
9 if there is very cheap telecommunication services.

10 I mentioned there is still something of
11 a shortage in some places of metropolitan fiber
12 service. But if the long haul network is there,
13 and very competitively priced, I think the
14 investment funds will be forthcoming to pay for
15 that. What you really want to look at, on a going-
16 forward basis, will the money be there for the
17 complementary services that can really utilize this
18 inexpensive telecommunication? I think they will
19 be.

20 PROFESSOR WHITE: I would second that.

21 COMMISSIONER COPPS: Let me ask a
22 question, if I could. I was both hugely fascinated
23 and hugely frustrated by the discussion on
24 competition. I think a couple of the speakers at
25 the outset said nobody likes competition.

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1 Certainly, the market doesn't like competition.
2 Least of all does it like the facilities-based kind
3 of competition to which a number of us would like
4 to see an evolution toward.

5 Yet as Mr. Wallace pointed out, and as
6 the rather clear commitment of the country as
7 expressed by three branches of government, that we
8 are going to have competition in the United States.

9 So I don't know quite where that leaves us. It's
10 kind of the irresistible force meeting the
11 immovable object.

12 But I would certainly appreciate having
13 some little guidance on how we might extract
14 ourselves from a dilemma of this magnitude. And,
15 really, is it unrealistic investor expectations
16 that's the culprit here as much as anything else?
17 Are those expectations at historically
18 unprecedented levels? Is that a problem that we're
19 dealing with? Or feel free to --

20 MS. WARNER: I'll just take a first
21 stab. I'm sure there will be others. I mean, my
22 personal view is we are, I think, at somewhat of a
23 stalling point in terms of how to resolve this.
24 Part of the issue is, obviously, that the incumbent
25 businesses in telecommunications appear to be to

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1 many investors the only place in which there is an
2 opportunity for return.

3 And so I would say that while markets
4 generally -- markets don't like competition, and,
5 frankly, if competition occurs slowly in this
6 market, we all have an opportunity to make, you
7 know, better returns or at least more manageable
8 returns over the next few years as competition
9 arrives.

10 I think the challenge is for
11 facilities-based competition that we believe that a
12 lot of the capital we invested in the last five
13 years was facilities-based competition, and that's
14 why we are sitting here with, you know, several
15 networks, many of which are in bankruptcy.

16 So in terms of spurring on incremental
17 facilities-based competition, you know, it's not
18 clear to me that the market will tolerate that. I
19 think we'd prefer to see how the existing structure
20 works out. And maybe to Commissioner Abernathy's
21 question, maybe it is a matter of structural
22 solutions first, given we've got facilities and
23 capacity out there before, you know, we really can
24 move on in terms of incremental investment.

25 PROFESSOR WHITE: Let me -- I'd like to

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1 address that as well. And I think here is where
2 leadership by the Commission and by all branches of
3 government are really important. I say this as a
4 former chief economist at the Antitrust Division.
5 I know the Chairman, as a fellow alum of the
6 Antitrust Division, I truly believe would share
7 this.

8 The markets may not like it, but that's
9 the market's problem. And the public good, the
10 public interest in greater competition, really
11 ought to trump anything else. And that's what
12 leadership ought to be all about.

13 CHAIRMAN POWELL: Let me just exercise
14 a privilege and throw a gloss on this. I think
15 it's wrong to say markets don't like competition.
16 Markets like winners, and markets function very
17 effectively in many very competitive markets. I
18 think that is too gloomy as sort of a binary
19 choice.

20 I mean, I think that the greater
21 concern here is people are struggling to find
22 winners and struggling to see paths for different
23 classes of companies in different markets to find a
24 path to success or victory.

25 I mean, money flows all the time into

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1 people who are entering competitive markets, if
2 they think they have an advantage, a competitive
3 advantage, a differentiated product, something that
4 will allow it to gain market share. So let's not
5 -- I'd like to sort of take issue a little bit at
6 the idea.

7 You know, competitors don't like
8 competition all the time. But I think markets are
9 fairly agnostic. As long as there's an opportunity
10 to get a return on that investment, they'll take
11 it, even in a competitive market. I just thought
12 I'd --

13 MR. WALLACE: And recent history bears
14 it out. If you look at the financial services
15 industry and the telecommunications media industry
16 broadly from 1994 through 1995, highly competitive
17 in new ways that people didn't understand, and yet
18 returns across the board were good for many, and
19 the winners really won.

20 In terms of the leadership and the
21 structure for regulation, Justice Kennedy probably
22 hit it on the head in the 1994 and 1997 decisions
23 in FCC v. Turner. If there's a bottleneck created
24 by one entity in terms of distribution, content, or
25 their ability to control prices in that market

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1 disproportionately, that's something that ought to
2 be regulated. If you don't have the bottleneck,
3 market forces are probably taking care of it for
4 you.

5 PROFESSOR VARIAN: I have one brief
6 comment on your phrase "historically
7 unprecedented." I don't think there's anything
8 that's historically unprecedented. We've seen, of
9 course, booms and busts continually -- the
10 railroads in the 1840s and 1880s, the radio boom in
11 the 1920s.

12 There was at the time the famous
13 euphoria of 1923, which compares almost exactly to
14 the internet euphoria of 2000, PC software in the
15 1980s. 1907 to 1910 there were over 300 companies
16 that entered the automobile industry, and then they
17 were winnowed out in the first part of that decade.

18 So continually, whenever you have booms
19 in technology, you'll see something that captures
20 the public imagination, a big investment boom, and
21 not a bit of an overhang. And I think the lesson
22 that Larry raised was the most important thing to
23 remember, that typically it's better to recognize
24 those losses sooner rather than later. Don't drag
25 it out, don't try to pretend they aren't there, and

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1 move on. That's what has worked in the past, and I
2 think that's what's going to work now.

3 CHAIRMAN POWELL: One of the things
4 that I think is always missing in this kind of
5 discussion is, you know, competition is not some
6 infinite concept. Markets try to find a point of
7 equilibrium on the right number of competitors and
8 the right space, so that producers continue to
9 produce and consumers continue to purchase.

10 We all cite to historical examples from
11 tulips to railroads to airlines. But there has
12 been a growing sort of recognition that there is an
13 aspect of network industries that just tends to
14 scale in scope, that just has to be accounted for
15 as a matter of effective policy.

16 You know, people cite the railroads,
17 but then -- let's say, how many of them are there.

18 Let's cite the airlines. Now let's talk about how
19 many of them there are still not turning profits.
20 You know, let's cite the telegraph and its
21 experience from 80 to one, and then to telephones,
22 which produced a government embracing of one.

23 Can any of you -- I know, you know, how
24 you've written about this. Others -- is there some
25 additional qualification because of the necessary

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1 nature of a networked industry?

2 PROFESSOR VARIAN: Well, I would say
3 the important characteristics are to look at the
4 scale economies on the supply side and the demand
5 side. So if you have an industry where there are
6 large scale economies, cost advantages in
7 production, you are going to see a relatively small
8 number of competitors. And, of course, we saw that
9 in the automobile industry.

10 If you have an industry where there is
11 very large demand side economies of scale, so that
12 there is -- more valuable to connect to the largest
13 player, then you'd expect to see a relatively small
14 number of players there.

15 I think there absolutely will be
16 continued consolidation in the telecommunication
17 industry, but -- and, in fact, it's possible that
18 market forces alone would take you all the way to a
19 monopoly player. But I think that there is a role
20 for policy in stopping somewhat short of that
21 purely competitive outcome, in my opinion. The --

22 CHAIRMAN POWELL: How do you know where
23 it is?

24 PROFESSOR VARIAN: How do you know
25 where it is? Well, I think economists generally

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1 would agree that one and two are too small, and
2 three is getting there, and five looks pretty good.

3 (Laughter.)

4 PROFESSOR NALEBUFF: Let me add to
5 that. I think it's the case that, in particular
6 for telecom, they have done a very bad job with
7 product differentiation, that for the most part I
8 don't have any idea what network I'm using, how
9 it's -- what's traveling over where, and that it
10 actually doesn't have to be that way.

11 In fact, my discussion about the lack
12 of transparency in wireless pricing I think is one
13 of the reasons why we have incredibly high churn in
14 the United States, that basically people don't like
15 their wireless carriers because they constantly
16 find their bills to be higher than they expect them
17 to be, and they don't understand it.

18 So my view is that the lack of service
19 innovations is actually remarkably little. Think
20 about how much better computers are 20 years --
21 today compared to 20 years ago versus how much
22 better telecommunications is. So they have the
23 curse of low marginal cost and high excess
24 capacity, which is a recipe for losing money.

25 But at the same time, the antidote to

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1 that, some product differentiation and some
2 customer loyalty, is something they've failed to
3 achieve. And that's their own problem.

4 MR. KONEFAL: I would offer a couple
5 more thoughts on it. I guess, first off, telecom
6 is, by definition, a very capital-intensive
7 industry. It requires very patient capital. It
8 takes a long, long time for that return to be
9 earned.

10 And in those markets that are very well
11 developed, there is already an incumbent. And in
12 the more nascent markets, like wireless -- and I'm
13 sort of using time horizon rather liberally here --
14 but the wireless area or the data area, where there
15 isn't really a front runner, the opportunity for
16 success at least has more realistic teeth to it
17 than in areas where there's already a very dominant
18 incumbent.

19 COMMISSIONER COPPS: Is patient capital
20 an oxymoron?

21 (Laughter.)

22 MR. KONEFAL: Excuse me?

23 COMMISSIONER COPPS: Is patient capital
24 an oxymoron?

25 MR. KONEFAL: It is these days.

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1 (Laughter.)

2 COMMISSIONER MARTIN: I wanted to ask
3 -- I seem to sense a tension between some, I
4 thought, of the panelists. And I just want to be
5 sure I understand. There was a lot of talk about
6 not giving up on competition on the one hand, but I
7 think that, really, the distinction or the
8 challenge for us is the degree to which we
9 recognize the intermodal competitions occurring and
10 how that impacts our intramodal regulations.

11 And that's -- so I think we can all
12 agree on the competition principles. But I think
13 that we have another level in our questions of what
14 we're -- what issues we're facing and the
15 challenges that we're dealing with.

16 And I heard Rob talking about, for
17 example, some of the concerns he had with the
18 wholesale pricing market and the potential wrong
19 signals that I think it was sending. I think I
20 heard Rob say it.

21 But then I also heard Lara and Larry at
22 the end talking about the importance of continuing
23 to focus on intramodal competition because of their
24 doubts about facilities-based competition because
25 of the investment that has already occurred there.

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1 And so I'm wondering, is there
2 unanimity on that question? And where should our
3 focus be? Because that's where I think the real
4 challenge is for us is that when everyone talks
5 about don't give up on competition, or that's going
6 to be ultimately what drives additional resources,
7 infrastructure, and services, but the degree to
8 which we recognize the intermodal platform to
9 platform competition that's occurring, or whether
10 we continue to have as a point of emphasis the
11 intramodal, that I think for me is the real
12 question. And I was wondering if each of you could
13 comment on which direction and how much of a degree
14 do you think we need to recognize that going
15 forward.

16 MR. GENSLER: I may as well start,
17 since I brought it up. My biases are clear -- is
18 that intermodal competition is a wonderful thing,
19 and it's here to stay and it's actually one of the
20 great things that has happened in telecom in the
21 last 10 or so years.

22 And if we continue to think of it as if
23 they are just individual silos, and there's not
24 cross-correlations and cross-subsidies and cross-
25 effects, it gets to Michael's question about

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1 networks and how we regulate networks.

2 Well, a network business inherently has
3 cross-subsidies and cross-costs that are just very
4 hard to capture in any one business product line.
5 And if we ignore the intermodal, it's at our peril
6 when we're trying to incent some small market share
7 player in an intramodal way as if it's the only
8 competition. And we ought to embrace the fact
9 there's intermodal, that there's broadband, there's
10 wireless, there's fixed line, and work -- use that
11 to work to our advantage and competition would be a
12 great thing in that way. If we try to niche each
13 mode to death with little policies, you just drive
14 investment away.

15 CHAIRMAN POWELL: If anybody else has
16 any --

17 MR. KONEFAL: I guess I would say that
18 intermodal is actually critical in the sense that
19 for each of the companies that are feeling pressure
20 on their core businesses, their opportunity to
21 perform their way out is through entering into, if
22 not developing rather aggressively, other modes of
23 business.

24 PROFESSOR NALEBUFF: I'd like to
25 challenge the question in the sense of I don't care

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1 if there's less investment. We've had too much
2 investment. Our problem is not getting more
3 investment. Actually, the goal of competition is
4 to bring down prices, and that's actually something
5 that needs to happen and hasn't happened.

6 And so if it increases investment,
7 that's great. But if it doesn't, I can live with
8 that for a while. We've had plenty of that.

9 MS. WARNER: I guess I'll answer, and
10 I'll answer this from my cable perspective at the
11 moment. Cable obviously spent over \$80 billion in
12 the last six years building out networks, although
13 now they're finding themselves with somewhat of a
14 constrained capital environment themselves.

15 One way you might want to think about
16 this is: what if cable had access to existing
17 networks? What would that do? And I think you can
18 look at it two ways. One is, from my perspective,
19 you would probably view that as positive.

20 You'd have an opportunity for the cable
21 industry to get into the telephony business, for
22 example, without putting capital up front, proving
23 they could actually scale in that business, and
24 then putting capital behind it.

25 And I do believe over time companies

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1 are incented to put capital behind it, particularly
2 the cable industry. The bad thing is that they
3 would clearly stop facilities-based competition. I
4 would argue they don't have a lot of luxury to do
5 that in the near term, but clearly they would stop
6 facilities-based competition.

7 So it depends on what your ultimate
8 goals are, but I would say, as an investor, as
9 cable investors would probably, you know, look
10 positively on that opportunity, but they are the
11 market attacker. You know, they are not the
12 incumbent.

13 And I think you can't have this
14 discussion without recognizing that, you know,
15 there is a significant part of this that is wrapped
16 around the fact that a large amount of market cap
17 in the industry is in the incumbents.

18 PROFESSOR WHITE: Let me jump in here,
19 and I think you ought to do both, that you just
20 can't think of it as a dichotomy. You've got to do
21 both. To use I think a good analogy, to think
22 about transportation. Yes, trucks versus rail is
23 important, but also rail versus rail and trucks
24 versus trucks is also important. And just you have
25 to do both the inter and the intra, and you can't

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1 just focus on one or the other.

2 PROFESSOR VARIAN: I think if you went
3 back to 1995 and told Congress that if you vote for
4 this bill, this 1996 bill, by 2002 almost every
5 household in the U.S. will have access to cable,
6 wireless, and copper for local telephone service,
7 and satellite will be competing intensely with
8 cable, and fixed wireless will begin to be
9 deployed, they would say, "Fantastic. That's what
10 we want to vote for."

11 So, actually, in my opinion, the
12 current situation has been much more successful
13 than one might have thought it would have been five
14 years ago. And somehow the cost of that success is
15 the fact that you're seeing a lot of incumbents
16 facing profit problems. That's the nature of
17 competition.

18 MR. WALLACE: And that success will
19 become more evident, again, when macroeconomic
20 conditions change. But, you know, unfortunately
21 for you all, you don't have the luxury of waiting,
22 nor do you have the luxury of choosing which one to
23 get behind, because intermodal is here. The assets
24 are there. It's unlikely they're going to be
25 ripped out of the sky or the ground anytime soon.

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1 Someone will use them.

2 And intramodal is a rule that you're
3 stuck with. Until some level of competition exists
4 that meets the '96 Act level, or threshold, you've
5 got to provide both. I don't see that it's an
6 either/or.

7 COMMISSIONER COPPS: One of the
8 mandates we operate under here is to encourage the
9 delivery of comparable telecom services at
10 comparable prices in both urban and rural America,
11 and to all consumers in America. And I don't know
12 how you would define the place of rural America in
13 the business plans of some of the companies that
14 you deal with.

15 But I'd like to ask a question that I
16 ask a lot of the business people that come through
17 my office, and I guess a wealth of diversity in the
18 response. Do you think that without incentives and
19 without stronger universal service commitments on
20 the part of the government, that market forces on
21 their own are capable of leading to this kind of
22 comparable telecom service at comparable prices
23 across both rural and urban America?

24 PROFESSOR VARIAN: I believe it would
25 not. I believe that the cost would reflect prices

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1 under a market system, and I think that if it's
2 more expensive to serve a given area, it's going to
3 be more costly to consume that service. I actually
4 grew up on a farm. I'm one of the few people
5 around who can say that these days. But we paid a
6 lot less for parking on the farm --

7 (Laughter.)

8 -- than I do now, and the fact that we
9 might have to pay more for cable or for telephone
10 service doesn't seem to me to be unreasonable.

11 COMMISSIONER COPPS: Well, this is
12 another one of those areas where we have a
13 legislative mandate and the irresistible force
14 meeting an immovable object that I talked about.

15 CHAIRMAN POWELL: I'd like to ask a
16 question, but I can't resist being a little
17 cantankerous about a couple of points.

18 (Laughter.)

19 Professor Nalebuff, I don't think I
20 agree that investment is irrelevant, for no other
21 reason than I don't think competition drives prices
22 down. I think competition drives prices to their
23 economically efficient levels. And if those are
24 below -- if those are below that mark, it will
25 drive prices up.

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1 And that will be just as logical in an
2 economic system as the -- the reason I say this is
3 because this is an important part of the problem we
4 have in the telecommunications sector, because as
5 long as we have, to carry on from Commissioner
6 Copp's point, a major political and public policy
7 mandate about universal service, and as long as we
8 have massive amounts of public funds used to
9 subsidize those rates, the competition question is
10 not a simple matter of, you know, free reign.

11 And trying to continue to encourage
12 investment is critical to continue to maintain the
13 viability of a network that is priced at retail,
14 below its costs on average. I think that makes an
15 important public policy problem.

16 I guess I also think it's an important
17 public policy problem from another universal
18 service standpoint, which is certainly the country
19 would allow companies to fail. But at some level,
20 it wouldn't tolerate it. At some level of critical
21 services and critical infrastructure, we would
22 insist on carrier of last resorts or a reference to
23 the social contract that I think Rob talked about.

24 And one of the biggest public policy
25 problems for decades in telecom is to somehow

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1 continue to stimulate investment to maintain the
2 quality of the network at a level of reliability,
3 because 911 or something is not fungible.

4 But I wanted to kind of change the
5 discussion a little bit to pick up on some of the
6 themes I heard. One of them was about technology,
7 and in some ways I don't know that we talked enough
8 about that.

9 I remember being at a conference --
10 indeed, I think one sponsored by Haas -- in which I
11 heard a very chilling thing which I think has now
12 come home to roost by a major CEO of a major
13 information company. He says, "I have a major
14 problem that I've never seen before, and I don't
15 know how to deal with. If I don't tell my
16 engineers and physicists to do anything, they're
17 going to show up in my office in a year and tell
18 me, 'Guess what, boss. I just tripled your
19 capacity and cut your price in half.'"

20 And he said, "You don't understand.
21 From a business point, that means I have only two
22 options. One, I have to cut prices 50 percent for
23 what I'm delivering, or I've got to come up with 50
24 percent more value to do with the same network I
25 did before, and neither of them is an attractive

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1 proposition to me."

2 He said, "And what scares me, this
3 looks like forever." And that as long as the
4 technology curve keeps disrupting that equation,
5 you know, he says, "The products I sell I can't ask
6 Ford Motor Company to throw everything out every
7 year and start over." And that's a real challenge.

8 To me, this is a real serious secular
9 component that I think is part of the story about
10 what happened. I don't remember -- one of you said
11 I don't think they made a really bad mistake and
12 made some rationality in the number of strands they
13 were -- I think Hal said investing. But what they
14 really didn't count on is the degree to which
15 technology would disrupt that choice.

16 But even though the market is down and
17 grade magazines like the industry standard aren't
18 reminding us of the Technology Modifications every
19 week, even while we sit here, the microprocessor
20 chip is still doubling. Even while we sit here,
21 the prices and capacity of memory continue to be
22 cut. The capacity increase is cut.

23 But technology is really not interested
24 in this discussion and continues to be this sort of
25 massive secular and disruptive change that I think

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1 policymakers are going to have to struggle with,
2 businesses are going to struggle with, and I'd even
3 be willing to challenge industry to struggle with,
4 because I'm not so sure that traditional measures
5 of supply and demand and projections are going to
6 hold up in a market of this sort of unpredictable
7 disruptions, and that we're all sort of in this
8 soup of, how do you deal with dynamism forever.

9 John Chambers often says you've got to
10 get used to being a declining cost business for the
11 rest of your life. This is not a comfortable place
12 for a CEO. I would submit it's not a comfortable
13 place for regulators either who tend to hope for
14 stable assumptions. And I'm not so sure I think
15 investors now are waking up to the cold fear of
16 that.

17 Does anybody -- I mean, this is a very
18 open-ended question, but I think it's important one
19 -- have any sense of the degree to which that
20 technology, that secular component, is a part of
21 the fear of the investment equation? And is there
22 any sense of how the money and the markets will
23 grapple with it on a going-forward basis?

24 Rob, do you want to start or -- or
25 Robert?

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1 MR. GENSLER: I'll start. You know,
2 this is something -- I've covered the industry
3 eight years, and we've always known about as a
4 declining cost. But what makes it even more
5 troubling, because this is just a fact of life, is
6 when you deal with TELRIC pricing, by definition
7 you are always giving new entrants the ability to
8 lease the incumbent's network at forward-looking,
9 best practice type costs, which is wonderful policy
10 in its abstract, but in reality of this declining
11 cost you will always definitionally have stranded
12 costs.

13 And TELRIC, combined with UNE-P, it's
14 sort of scary, you know, as opposed to, yes, it's
15 declining costs, and I've got enough -- remember,
16 if I have enough scale and scope that I have a
17 market share advantage, the little nitchy player
18 only has an advantage if they can load their
19 network. This is the great fallacy of a lot of the
20 big networks that were built. They were unloaded,
21 so their efficiencies were terrible.

22 Okay. But if they can load them and
23 resell everyone else's at a forward-looking,
24 declining cost that the incumbent actually by
25 definition can't have because they have their

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1 stranded plant, it's very disturbing.

2 MR. KONEFAL: I mean, without question,
3 the telecom vendors are on their backs suffering
4 even more so than the service firms are.
5 Practically speaking, not all telecom investment is
6 running to zero. It is differential. It is
7 probably most dramatically cut back in the long
8 haul, where the overcapacity issue is the greatest.

9 It is less so in the metro and the
10 local networks, as well as the wireless networks.
11 I mean, the vendors, at least for now, are riding a
12 couple trends. One is that there is still a fairly
13 substantial investment need there, and the other is
14 that while revenues are unquestionably under
15 pressure, traffic is continuing to grow. And at
16 some point you absorb the capacity.

17 So it's not a -- sort of a ready-quick
18 answer, but at some point there's going to need to
19 be investment in plant. And, furthermore, we would
20 -- we also seem to be talking about investment in
21 the offensive sense of the term. There really is,
22 in some respects, a defensive need to invest.

23 If the cable industry, for example, did
24 not invest as much as it had over the past five
25 years, it might be a different ball game with DBS.

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1 But they were prompted to invest by that
2 competitive threat. They have invested heavily
3 there.

4 CHAIRMAN POWELL: We are over time, and
5 I don't want to risk, if anybody particularly has
6 flights or something -- if you can stay, I would
7 propose just 10 more minutes to make sure we
8 haven't -- we have certainly exhausted questions.
9 Is that agreeable to you all? If you need to go,
10 just let us know and we'll -- but that's only 10
11 more minutes, seven more minutes from now.

12 Kevin, did you --

13 COMMISSIONER MARTIN: Well, I wanted to
14 follow up on the questions that -- or the issue
15 that Hal Varian had brought up on the competitive
16 bankruptcy. And I notice that you talked about it
17 and highlighted that as a concern. There was some
18 discussion as to whether or not it should be a
19 concern, but I also wanted to ask -- even if it
20 was, I didn't notice you highlighted anything we
21 could do about it.

22 And so that was -- was it just you
23 were flagging an issue that that could be a real
24 problem? But I didn't know if there was any
25 suggestions that anybody had. Even if we agreed it

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1 was a concern, is there anything we could do? And
2 I know others thought maybe we shouldn't even be
3 worried about it, but I didn't know if there was
4 anything you thought.

5 PROFESSOR VARIAN: Well, I mean, it's a
6 concern only in the sense I think you should be
7 aware of it. It's not that there is some magic
8 cure that will eliminate that possibility.

9 But if it -- if the bankruptcy is seen
10 as the solution, which I think it is certainly part
11 of the solution, and financial organization has to
12 be undertaken, I think you will see more weak
13 companies than you can forecast now, because there
14 will be an advantage to seeking that particular
15 route.

16 I don't think that that's something
17 that we should say that's not a reason to allow
18 that movement, as Larry indicated. But I think
19 it's just a fact of life. We've seen it before,
20 historically. And it's something we have to be
21 aware of when we go into this.

22 PROFESSOR WHITE: Let me just follow
23 up. Again, it is not a problem. If you think it's
24 -- there is a problem, it is the fact that we have
25 low marginal costs and high fixed costs. That's

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1 the issue. But competitive markets are going to
2 drive prices to marginal or close to marginal costs
3 in any event.

4 This issue of the bankruptcy of one
5 company causing other companies to perceive
6 conditions as unfair, as Hal just mentioned, that
7 goes back at least a century. The railroads
8 complained that one company's bankruptcy made
9 problems for them. A decade ago airlines were
10 complaining that one company's bankruptcy created
11 problems for them.

12 But that's all driven by this low
13 marginal cost phenomenon, and that's just a fact of
14 life. We all have to live with it. You have to
15 live with it. But that's why you're paid such
16 handsome salaries.

17 (Laughter.)

18 COMMISSIONER ABERNATHY: Yes. One area
19 that we've touched on briefly but not in great
20 detail is spectrum, and the fact that we do a lot
21 of spectrum allocation here. And how should the
22 current market conditions, if at all, affect how we
23 put spectrum up for auction? Which is the
24 preferred method these days of licensing spectrum.

25 MR. WALLACE: I think the first rule is

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1 to be certain of what you're auctioning and the
2 delivery. And that, you know, said directly is to
3 have a lot more certainty around the process and
4 the timing of the end of the process.

5 COMMISSIONER ABERNATHY: Okay. Anybody
6 else?

7 COMMISSIONER COPPS: Let me ask, Mr.
8 Konefal, I think you made some comments about 271
9 applications and business activity and competition
10 coming out of that. We hear a lot from the
11 companies, the regional Bells, about loss of
12 competitive lines and all of that.

13 How do financial analysts look at it --
14 if it's a tradeoff, if you will, the ability to go
15 into a section with 271 and offer long distance
16 vis-a-vis the losing of the lines to competitive
17 carriers, or to wherever? Do you -- from the
18 standpoint of the financial viability of the RBOCs,
19 how do you assess that?

20 MR. KONEFAL: I guess, first off, I'll
21 highlight that the RBOCs are quite strong companies
22 in their own right. I think you frame it
23 accurately. There's a tradeoff here. They are
24 definitely feeling some of the impact of, you know,
25 losing lines to competition. But the long distance

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1 opportunity is a meaningful one. I think Lara was
2 saying, or someone else on the panel was saying,
3 that it is a huge opportunity.

4 And the tradeoff is rather difficult to
5 scale right now, but it is certainly a meaningful
6 opportunity on the part of the regional Bells to
7 pick up long distance. So there's going to be an
8 offset, and it's probably a significant one.

9 COMMISSIONER COPPS: You also mentioned
10 -- and I thin one of the other panelists did, too
11 -- about the competitive local exchange carriers
12 who will survive. Do you have any judgment on how
13 many of them are going to survive?

14 MR. KONEFAL: It's not clear what form
15 it's going to take. It's -- under the current
16 construct where you have, you know, the bifurcation
17 still of local from long distance, as I mentioned
18 in my remarks, the long distance carriers are
19 feeling the pain the most.

20 And so in that respect, it's a bit more
21 difficult to make the call on that segment of the
22 market. Whereas, if, you know, the segmentation if
23 you will of the wire line side of the market was to
24 remain in place, the regional Bells and the other
25 independent LECs are pretty solid companies.

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1 They're all rated in the single A or
2 Baa categories. And so that, in our mind, is a
3 pretty strong view that they are among the ones
4 that will be the long-term survivors.

5 MR. GENSLER: Commissioner Cops, if I
6 could answer sort of both questions. I don't know
7 how many will survive, but I know what type. Okay.

8 And it's to your 271 question. The reason it's so
9 important for the RBOCs is so that they can have a
10 bundled service offering. Okay? Because they all
11 have network costs and SG&A costs that are -- and
12 many times the serving of a customer is more than
13 just the network cost.

14 And if you can't have a scale of scope
15 in your product offering, you lose. And whatever
16 CLECs come out of the ashes, I'm convinced they
17 will be companies that have a full scope of
18 product. We made the mistake in the late '90s of
19 thinking there would be a disaggregation of the
20 network, a disaggregation of the product offerings.

21 And we even had companies spin off their wireless
22 companies, which in hindsight I think was very
23 foolhardy.

24 We will return to a day where you have
25 scale of scope and product as well as network and

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1 offerings, and it's those companies that will have
2 the better returns.

3 MS. WARNER: Can I just make a comment
4 that maybe gets to the Chairman's question earlier,
5 which is scale and how many players. I think it's
6 important also to recognize a couple of things Rob
7 just said.

8 Number one, network costs many times
9 are dwindled by the costs of SG&A, selling,
10 provisioning, billing, and caring for these
11 customers, particularly on the consumer side over
12 time. And I think that, you know, as it relates to
13 how many players, while certainly new competitors
14 can come in and offer bundled services, etcetera,
15 it takes them significant amounts of fixed capital
16 to put in place things like care centers, billing
17 capability.

18 You know, AT&T, at its best, is 20
19 percent SG&A. On a very scaled company, it's been
20 proven I think that building a network and not
21 having the capital to, in essence, care for that
22 customer doesn't work.

23 So certainly I agree that scalability
24 on both sides is going to be important, but I also
25 believe that, you know, there is a very large

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1 number of customers that you have to have before
2 you can really generate returns on both the network
3 side as well as on the, you know, day-to-day care,
4 particularly of the consumer customer.

5 CHAIRMAN POWELL: Well, thank you. I'm
6 not going to hold you all any longer. I think it's
7 been an extremely productive discussion, and I
8 appreciate you all joining us for this.

9 I would simply like to emphasize that I
10 heard some themes that I think this Commission has
11 often pointed to and will continue to be guided by,
12 a lot of questions about acting quickly to help
13 with the question of regulatory certainty.

14 One way or the other, whatever the
15 judgments to make them, make them boldly and make
16 them quickly, and the market will adjust to
17 whatever they are. At least they will digest it as
18 a positive if it's a clear direction, well
19 signaled, and well written, and it will be guided
20 by that.

21 I think we also hear that competition
22 is still an imperative. It always has been. I
23 don't think there's been any suggestion -- I think
24 in the regulatory world -- of abandoning
25 competition. I think that Commissioner Martin sort

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1 of hit on it.

2 It's a continuing struggle for what the
3 balanced environment for that is -- that is,
4 healthy and productive and long term and
5 sustainable -- and I think that's -- we've always
6 underestimated how difficult a question that is,
7 particularly in an attempt to create it
8 regulatorily, with all the kinds of things that
9 have existed in the monopoly system.

10 And I think we've heard some long-term
11 prospects for new technologies. It's always
12 important to be guided by making sure that those
13 have breathing spaces and opportunities for new
14 revenues that offer new sources of cross-
15 subsidization for a high fixed cost network.

16 So I think we learned something, or
17 certainly emphasized points, and I appreciate it.

18 And with that, I'd like to adjourn the
19 meeting and thank everyone for their participation.

20 Thank you.

21 (Whereupon, at 4:17 p.m., the
22 proceedings in the foregoing matter
23 were adjourned.)

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