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1 NEW YORK CITY TEACHERS' RETIREMENT SYSTEM
INVESTMENT MEETING
2 Held on Thursday, January 3, 2019
at
3 55 Water Street
New York, New York

4

ATTENDEES:

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JOHN ADLER, Chairperson, Trustee, Mayor's Office

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DEBRA PENNY, Trustee, TRS

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THOMAS BROWN, Trustee, TRS

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DAVID KAZANSKY, Trustee, TRS

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THADDEUS MCTIGUE, Deputy Executive Director, TRS

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LIZ SANCHEZ, TRS

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SUSAN STANG, TRS

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JOHN DORSA, Comptroller's Office

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RENEE PEARCE, TRS

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PAUL RAUCCI, TRS

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DELORES CAPONE, Office of the Actuary

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ROBIN PELLISH, Rocaton

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DAVID MORGAN, Rocaton

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MICHAEL FULVIO, Rocaton

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RONALD SWINGLE, TRS

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MELVYN AARONSON

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P R O C E E D I N G S

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(Time noted: 11:00 a.m.)

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CHAIRPERSON ADLER: Good morning, and
happy new year. Welcome to the Teachers'
Retirement System investment meeting for
January 3, 2018.

4

Thad, would you call the roll?

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MR. MCTIGUE: John Adler?

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CHAIRPERSON ADLER: Here.

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MR. MCTIGUE: Thomas Brown?

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MR. BROWN: Here.

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MR. MCTIGUE: David Kazansky?

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MR. KAZANSKY: Present.

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MR. MCTIGUE: Debra Penny?

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MS. PENNY: Here.

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17 MR. McTIGUE: Lindsey Oates?
18 (No response.)
19 MR. McTIGUE: John Dorsa?
20 MR. DORSA: Here.
21 MR. McTIGUE: We have a quorum.
22 CHAIRPERSON ADLER: Thank you, Thad.
23 I apologize. I do have a cold, and I
24 will try to keep my hacking to a minimum.
25 Please bear with me.

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1 I will turn it over to Rocaton to give
2 us the happy new year news.
3 (Laughter.)
4 MR. FULVIO: We will start with what
5 was the happier part of late last year,
6 which was the November performance, and
7 then --
8 MS. PELLISH: Then we will stop.
9 (Laughter.)
10 MR. FULVIO: How we ended the year,
11 and my colleague David Morgan, a partner
12 at Rocaton who's here with us today, will
13 take us through our outlook, looking
14 forward for 2019.
15 So maybe with that we'll start with,
16 again, which was maybe the only bright
17 point during the pretty volatile fourth
18 quarter for markets in 2018.
19 So you might recall in the U.S., equity
20 markets as a whole were up 2 percent.
21 What drove markets in the U.S. in the time
22 period was actually value stocks which did
23 quite well, which we haven't seen for a
24 little while. These stocks as a whole in
25 the Russell 3 were up about 3 percent.

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1 That helps performance in absolute
2 terms, and we saw strong results from the
3 active managers within the program during
4 November. Again, still trying to make up
5 some of the earlier underperformance for
6 2018, but that was certainly a bright
7 point in November.
8 Emerging markets were also up 3 percent
9 during November, outpacing developed non
10 U.S. markets, which were roughly flat
11 during the time period.
12 And all told, for November the
13 diversified equity fund was up 1.7
14 percent. That brought the calendar year
15 to date return to just over 1 percent; and
16 that compared to the hybrid benchmark,
17 which for the month was up 1.6 percent,
18 and year to date up 1.3 percent.
19 As I mentioned earlier, active
20 management in the U.S., all told was up 3

21 percent. That helped with the relative
22 results and then some slight relative
23 outperformance by the international equity
24 composite, which, as I mentioned, did have
25 a modest positive return for the month.

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1 In terms of performance for the other
2 Passport funds, the balance of funds for
3 the month was up about 70 basis points.
4 Year to date the fund was down 70 basis
5 points through November.

6 The international equity fund, which,
7 as as you recall, the structure -- that of
8 the international equity composite -- the
9 diversified equity fund. That was up
10 again about 33 basis points. Year to date
11 that fund through November was down about
12 9 percent.

13 What really, again, what was driving
14 returns during the year to date time
15 period in the non U.S. markets was a
16 pretty negative year to date time period
17 for emerging markets as a whole, down a
18 little over 13 percent, and developed
19 markets down about 9 percent.

20 The inflation protection fund, that was
21 flat for the month. The year to date
22 return there was modestly negative by
23 about 30 basis points. And the socially
24 responsive fund was up about 3.4 percent,
25 outpacing the S&P 500 during November.

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1 I'll pause there before we change gears
2 and look at December.

3 CHAIRPERSON ADLER: Any questions
4 about November?

5 (No response.)

6 MR. FULVIO: So December, as you are
7 all aware (laughter), global -- sold off
8 quite a bit, a little more than 7 percent,
9 actually the worst December in more than
10 50 years.

11 And in addition to what we saw with
12 respect to equity markets, we saw the
13 opposite with fixed income markets, with
14 yields going down quite a bit on U.S.
15 Treasuries. Oil prices took a sharp
16 decline as the weakening global outlook in
17 December.

18 Emerging equity markets actually fared
19 quite well relative to the rest of the
20 world. They were down about 3 percent
21 during the month. The U.S. was down about
22 9.3 percent.

23 So if you don't mind, we handed out a
24 December report. You can see there the

25 very first number on the top left, the
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1 Russell 3000 down about 9.3 percent. The
2 international composite benchmark, again,
3 a mix of developed and emerging markets,
4 that was down about 4.5 percent.

5 Developed markets as a whole, developed
6 non U.S. were down 4.8 percent; and
7 emerging equity markets for the custom
8 benchmark here, actually because it didn't
9 include some of the markets that were down
10 more, the custom benchmark was down one
11 percent during December.

12 The defensive composite did provide
13 some downside protection. You can see
14 that was down about 5.8 percent. And all
15 told, the diversified equity hybrid
16 benchmark was down about 8 percent during
17 December.

18 So what does that mean really for
19 calendar year to date? You can see, all
20 told, the U.S. equity market last year was
21 down about 5 1/4 percent. Developed non
22 U.S. equity markets were down about 13
23 percent. And emerging markets, based on
24 the custom benchmark there, down about 14
25 percent last year. So, again, some pretty

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1 notable numbers there.

2 With respect to the balance fund, last
3 year that fund finished down 1.8 percent.
4 The inflation protection fund's underlying
5 strategy, that fund was down 4 percent
6 last year, compared to some preliminary --
7 on CPI, but CPI was about 2 1/3 percent
8 last year.

9 And then the underlying strategy for
10 the socially responsive equity fund last
11 year was down 5 1/2 percent.

12 So again, we will talk a little more
13 about the outlook going forward. But any
14 questions on how we finished last year?

15 CHAIRPERSON ADLER: Questions on a
16 December to remember?

17 MR. FULVIO: Maybe it is worth
18 mentioning, we talked about defensive
19 strategy within the diversified equity
20 fund. I mentioned in November we saw
21 value was something that did help in the
22 portfolio.

23 December was a similar month in that
24 regard. We actually saw value do a little
25 bit better relative to growth, which we

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1 hadn't seen for quite some time. We also
2 saw low beta, lowball stocks do quite well

3 for most of December. So, on a relative
4 basis, that should serve performance from
5 an active management perspective quite
6 well.

7 CHAIRPERSON ADLER: I just want to
8 say, I've been a sceptic about the
9 defensive strategies. And at least on a
10 benchmark basis, it's really, for last
11 year, you're looking at almost 375 basis
12 points of better performance from this
13 defensive strategy benchmark than the
14 hybrid. We'll see how it turns out when
15 we get a look at the numbers, but that's
16 terrific.

17 MR. KAZANSKY: That's what it's there
18 for.

19 CHAIRPERSON ADLER: That's what it's
20 there for. And when we entered this
21 fourth quarter of volatility, it seems, at
22 least on the benchmark basis, it seems to
23 have performed as expected. So that's
24 great.

25 MR. FULVIO: If there's no other

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1 questions or comments there, we'll change
2 gears and look forward.

3 MS. PELLISH: I want to make a couple
4 comments. First, the slides that we
5 distributed are materials we send to you
6 on a regular basis. So you've seen this
7 information.

8 And we invited David Morgan here today.
9 He's attended a few other Board meetings.
10 David is our chief market strategist.
11 That means part of his role is to pull
12 together the information that we gather
13 through our asset allocation research, our
14 equity manager research -- our private
15 market research.

16 And the work he does with his team is
17 to help us think through, in collaboration
18 with our clients, how portfolios should be
19 structured, given clients' specific
20 objectives and risk tolerance.

21 And we go through, as you know, a
22 pretty quantitative exercise, all sorts of
23 assumptions. But David is key in helping
24 us develop those assumptions, and then
25 helping us provide an overlay onto the

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1 quantitative results for modelling
2 exercises, when we work with clients on
3 asset allocation.

4 We had invited Mike Haddad here,
5 because he also spends a lot of time
6 thinking about markets and the outlook of

7 markets and expected risks in the
8 marketplace. Unfortunately he wasn't
9 available, so we tried to get a fill in --
10 (laughter) -- and I'm sure this is the
11 kind of conversation that I know the Board
12 likes to have on a regular basis.

13 And so David is here today because it's
14 the first meeting of the calendar year,
15 but we're happy to have this discussion as
16 the year unfolds, to the extent there are
17 issues or opportunities that we want to
18 incorporate in our thinking about the
19 pension fund's asset allocation as part of
20 those discussions.

21 MR. MORGAN: Thank you.

22 Good morning. Happy new year,
23 everyone. I believe I was here exactly a
24 year ago to talk to you about markets at
25 that point in time.

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1 CHAIRPERSON ADLER: How did you do?

2 MR. MORGAN: I think sort of the
3 notion that I'll tell you what's going to
4 happen in 2019 is a little far-fetched
5 (laughter). So I think we try and take
6 disparate strands of information and blend
7 them together to try and understand where
8 we are, and then think about ranges of
9 outcomes for the future.

10 To expect we actually know anything
11 about the future would be nice. But
12 anyway, with that as a setup, I know it
13 was for Mike to introduce us to talk about
14 the outlook. We certainly on an annual
15 basis create this document you have in
16 front of you. I'm not actually going to
17 refer to it much. I am going to talk
18 about some of the themes in it.

19 We create this document with the idea
20 that if you look at it 12 months out from
21 here in December of 2019, there are still
22 some things in it that are relevant; which
23 is quite a daunting task, to actually put
24 something down in print that clients open
25 months and months in the future and still

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1 there be some relevance to the comments
2 that are in there.

3 With that said, how did we get here?
4 We certainly heard where we are in terms
5 of quantitative -- how you've done at
6 different points in the year. When I was
7 here a year ago, the markets were on a
8 tear. If you remember January of 2018 was
9 a great month, one of the best Januaries
10 we've seen for a long period of time.

11 Then literally the second day of
12 February it all ended. It all ended with
13 a CPI report that seemed to spook the
14 market, and we certainly had the backdrop
15 of a trade spat back then. Now it seems
16 to be a trade war of varying degrees.

17 It was in the background, it didn't
18 seem to be driving the markets at the
19 time. But there was a worry that
20 inflation was going to pick up faster than
21 people expected, and that's what initially
22 spooked the market out of its bull phase
23 in January of 2018.

24 It sort of recovered from that after a
25 few months' time. We had great sort of

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1 later spring, summer period through the
2 third quarter, and you've obviously heard
3 about how the fourth quarter did. And it
4 wasn't such a great period of time,
5 obviously. We had ended the year in
6 negative territory for all of the equity
7 markets, positive territory for very high
8 quality bonds, negative territory for
9 anything that had spread product in the
10 fixed income market.

11 So, to me there's two really important
12 issues. There's a whole host of issues we
13 could discuss that I think are somewhat
14 sideshows. So I'm not going to talk about
15 things like Brexit or Italian politics or
16 any of that; because, while it's
17 important, those are all sideshows.

18 The two really big issues are the trade
19 war in relationship with China that the
20 U.S. has today; and also the sort of
21 growing war, tension between Federal
22 Reserve policy and economic growth in the
23 U.S.

24 So I'll start with the trade war. I
25 don't know how it's going to unfold from

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1 here. I don't know why we started it
2 (laughter), any more of the politics,
3 anything to that extent why we started it.
4 But it seems, I think a year ago I made a
5 Game of Thrones joke, image, to talk about
6 the election we had just gone through.

7 What comes to mind when thinking about
8 the trade war and its impact on markets is
9 shooting yourself in the foot. Just seems
10 like there is no need for us to approach
11 international trade relationships in the
12 way that we did.

13 It is ongoing, we're not sure how it's
14 going to unfold. It feels like a giant

15 game of chicken, global economy and
16 markets in the middle, taking the pressure
17 and tension of the whole thing.

18 And there's a certain political
19 calculus on our side and a political
20 calculus certainly on the Chinese side.
21 And I will ignore trade issues with
22 Canada, Mexico, the European Union,
23 because I think they're absolutely
24 secondary to the primary issue of the U.S.
25 versus China.

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1 If we keep talking -- there's a lot of
2 false narrative about what actually is
3 going on. When we say a level playing
4 field, fine. But we've never had a level
5 playing field, just generally improving
6 certain trade relationships and tariff
7 levels between us, in various parts of the
8 world, China included.

9 So to say, well, it's not a level
10 playing field, it's sort of not actually
11 the point; it never has been.

12 That aside, why is the U.S. doing
13 this? I'm not going to necessarily
14 explain why we're doing it and the way
15 we're doing it. Maybe part of the
16 calculus from the U.S. side is that
17 there's a portion of our growth and our
18 economy, and therefore ultimately our
19 markets, trade isn't as big a deal as it
20 is for China.

21 China trade is a massive deal, it's a
22 real growth and driver. Certainly looking
23 backwards at the economic growth in China,
24 that might be lessening as time goes on,
25 as they build a domestic market. But it's

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1 still a big deal for them, and a much
2 bigger portion of the Chinese economy than
3 it is of the U.S. economy.

4 It's also a bigger deal for the
5 European Union than it is for the U.S.

6 So I think if you're in the U.S. and
7 you want to take an aggressive stance you
8 can say, "If we have any kind of trade
9 tension impact the economy or markets,
10 it's going to impact them much more than
11 it will impact us. Therefore we have the
12 stronger bargaining, we hold the stronger
13 hand, they have to come to the table and
14 give us something."

15 Well, that makes a certain level of
16 sense, if you're willing to put the
17 economy and markets into sort of this kind
18 of pressure, which doesn't seem necessary.

19 What I think it ignores is that we have
20 an election calendar here and they don't.
21 So, for China, President Ji is president
22 for life (laughter), his election calendar
23 is already done; whereas we obviously know
24 what our election calendar is.

25 So we don't have equivalent electoral
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1 pressures in that sense.

2 What the Chinese are very worried about
3 is their level of economic growth, and
4 their level of economic growth is slowing
5 more than anybody expected. So that is
6 what I think markets started to sort of
7 understand with an increasing degree as
8 the year went on in 2018, certainly
9 understood more so in December of last
10 year.

11 That has a negative impact. Obviously
12 China has a negative impact on emerging
13 markets in general, has a negative impact
14 on the European Union. And so we have
15 those issues sort of holding back markets
16 as we speak today.

17 So, if we wake up and Trump has called
18 President Ji and they actually have a
19 framework of how they're going to fix this
20 -- not have a deal, that's months and
21 months out in the future -- but if they
22 had an actual agreement where they were
23 going to work on it, that would probably
24 be a major positive for markets and a big
25 plus for both our economy and theirs.

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1 So I think it would be a starting point
2 for changing sort of the trajectory of
3 markets.

4 So the longer that doesn't happen, I
5 think the more pressure we're going to
6 feel in markets. Because at the same time
7 -- and I will segue into Federal Reserve
8 policy here -- at the same time, I think
9 what surprises about 2018 is, the stock
10 market for most of the year was saying
11 things are great, and the bond market was
12 saying, "No, they're not."

13 We get this at times in inflection
14 points in the economy where the bond
15 market might be sceptical of where we're
16 going and the stock market still says,
17 "No, we're still partying, it's great,
18 we're still going up."

19 And then at a time in the fourth
20 quarter, they started to notice maybe
21 we're not in sync, and then the Fed,
22 Jerome Powell in December said, which I

23 would have to say, I think we at Rocaton
24 have been expecting we'd get to the
25 interest rate increases, the one in

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1 December and the three more in 2019 like
2 everybody was expecting, that would have
3 pushed the yield curve into a very
4 significant negative slope, and that just
5 doesn't jibe with where we were in the
6 economy.

7 So here we are only a few weeks further
8 on, and now we're expecting that the Fed
9 is going to increase, maybe once, maybe a
10 couple of times in 2019.

11 Excuse me, I also have a cold.

12 CHAIRPERSON ADLER: Who doesn't?

13 MR. MORGAN: The yield curve shifted
14 significantly. So ignore for a second
15 what the Fed does and says. The bond
16 market actually gives you active
17 information on a daily, minute by minute
18 basis.

19 The rest of the yield curve, as said
20 for the last couple of months here, maybe
21 four to six weeks, that the economy is
22 slowing, the Fed's going to be slower,
23 and that when we get to the end of this
24 year we'll be much closer to a recession.
25 We might not be in recession, but we'll

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1 get much closer to it. And those are
2 things that we need to be concerned about.

3 The bond markets also say, maybe taking
4 a cue here from the oil market, is that
5 CPI inflation is going to be a lot slower
6 in 2019 than perhaps we were expecting a
7 few months ago.

8 So, what does all that mean?

9 Like I said, as far as a trade war
10 goes, we can end that in moments. We can
11 end that in moments, or it could be going
12 on at the end of this year. It's really
13 unknowable at this ten seconds.

14 If you ask me what do I worry about, I
15 worry about there's no grownups left in
16 the White House (laughter).

17 It sounds like a joke, but this time
18 last year was a joke, this year it's not a
19 joke anymore. It's really a concern that
20 people who lead our foreign policy are not
21 too strong at this point. It doesn't seem
22 like there's anybody in the White House
23 who's going to say "You shouldn't do it
24 that way, that would be a mistake." Those
25 people seem to have all left at this ten

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1 seconds.

2 So, why would we get a quick end to the
3 trade war? We'd only get a quick end to
4 the trade war if Trump was really under
5 pressure, I think, this moment; or if he
6 wants to really put an injection back into
7 the economy so that the election period
8 next year is stronger for the Republicans.

9 The question then is, when do you need
10 to end the trade war, signal the end of
11 the trade war so that there's enough ramp
12 time for the election cycle to benefit
13 from the economy strengthening?

14 And I would suggest to you it can't be
15 that far out. So the most positive
16 feeling I have is that, if you are focused
17 on the political cycle you probably need
18 to do something in 2019, and probably
19 earlier in 2019 rather than later. That's
20 as positive as I can get (laughter) on
21 that score.

22 On the interest rate front, now I think
23 we're sort of at a really interesting
24 point. I think the Fed is under all kinds
25 of pressure. We've obviously heard Trump

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1 make statements and at least go through
2 sort of some internal process to ask, do I
3 have the authority to remove Jerome Powell
4 from his position?

5 I would say that the Fed is mostly
6 independent, but that we'd be foolish to
7 assume that any Fed we've ever had is
8 immune to political pressure. They go
9 talk to Congress on a regular basis.
10 They're going to turn up to Congress for
11 whatever period of time they go, every
12 month, and face a lot of hostility from
13 law makers and not be influenced by that?
14 It's hard to imagine.

15 Their job is to keep inflation low and
16 keep the economy humming along, a dual
17 mandate. So we should expect that they're
18 focused on that.

19 Going forward in 2019, what should we
20 expect the Fed to do? Inflation CPI as
21 measured, which will be released over the
22 next few months, will tick lower, then
23 you'll probably get your commentators on
24 CNBC or whatever financial news network
25 you see saying, why is inflation falling

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1 so low? Well, pretty easy. Oil prices
2 fell a lot, gas prices fell a lot. It's
3 sucking the headline numbers of CPI down
4 and will do for the next few months, you

5 should expect to see that.

6 It's already somewhat low, but it's
7 going to get lower; not all the way below
8 one percent probably, but it's going to be
9 weak for a few months here.

10 That's going to encourage the pundits
11 to talk about recession more than they
12 were doing a few months ago.

13 When at the same time the economy is
14 actually fine, we grew at 4 percent in the
15 middle of the year. The Federal Reserve's
16 job was to slow that, it was intending to
17 slow that, that's why it was pushing up
18 short term interest rates.

19 So what surprised us for most of 2018
20 was, the Fed was trying to slow the
21 economy from its 4 percent pace. It
22 always succeeds. There hasn't been a time
23 in economic history where short term rates
24 doesn't slow the economy.

25 Obviously it's going to slow the

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1 economy, but the stock market is seeing 4
2 percent growth, this is great. Earnings
3 are good, things are great.

4 So it was clear to us there's a tension
5 growing between the way the bond and stock
6 markets solve things. Now we're sort of
7 seeing this tension play out.

8 What happens going forward? It's hard
9 for us to see interest rates rising
10 significantly from here. So, what does
11 that mean? It means interest rates could
12 be 3 percent -- talking about the ten year
13 Treasury rate now -- interest rates could
14 be 3 percent, could 3 and a quarter. I
15 don't think it could be 3 and a half to 4
16 percent.

17 Why do I think that? One, inflation's
18 not going to be high enough to suggest
19 they should be all the way up there. U.S.
20 rates are already higher than anywhere
21 else in the developed world by a long way,
22 long way.

23 So there's no reason why U.S. interest
24 rates should be higher, just based on
25 those couple of statements. But also, if

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1 they were higher -- I think this is what
2 you've got to understand about today's
3 markets, which I want to be very careful
4 in saying this is different, because I
5 know that's a big failing statement,
6 should stay away from that.

7 But I think what people miss about the
8 bond market inflation and the way things

9 work in today's world, is that the amount
10 of debt that we have today versus three
11 years ago, pre-credit crisis, is far
12 higher.

13 The entire global economy is way more
14 sensitive to interest rates today than
15 it's ever been.

16 So what that means is, when you see a
17 25, 50, 75 basis point rise in interest
18 rates in the U.S., certainly anywhere else
19 in the world, it's pushing the borrow cost
20 and suppressing growth.

21 So you keep bond yields in a range, and
22 that's what we've seen now for the entire
23 time we've been at Rocaton; so, 16 years.
24 For 16 years we've sat in front of clients
25 and said interest rates probably won't

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1 rise much. And I think we've had lots of
2 clients year by year by year come to
3 meetings like this and assume that
4 interest rates were going to rise in that
5 particular year, and they haven't for the
6 most part, they've generally fallen.

7 Where we are today, 264 I think this
8 morning on the ten year, I don't see
9 interest rates necessarily falling much
10 from here. But I wouldn't see them north
11 of 3 and a quarter, which I think is
12 roughly where we got to on the ten year
13 Treasury rate.

14 The economy's not going to be strong
15 enough in 2019. It's going to continue to
16 weaken with or without the trade war. And
17 so, I think we're sort of stuck in that
18 trade zone.

19 Again, back to the stock market.
20 Really, I think it depends on what happens
21 with the trade war. It can all be made to
22 go away in very quick order. Maybe it
23 will. I think when they went to Buenos
24 Aires a few weeks ago and there was a
25 tweet that came out as a result of that

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1 meeting, that's probably how we're going
2 to find out the trade war might be over,
3 (laughter), through Twitter. But I think
4 you also want to see sort of a similar
5 statement from the Chinese to signal that
6 it's over.

7 Without that, I think what we don't
8 know going forward is how much slower the
9 Chinese economy grows. Of the things that
10 we should be worried about, Chinese growth
11 is one that we should be really concerned
12 about going forward from here; because

13 that has a big impact on a whole range of
14 different markets around the world,
15 certainly emerging markets.

16 And then talk about all the things
17 going on in Europe. I think Brexit, a
18 hard Brexit as you heard about in the
19 press, is a really low probability. The
20 press doesn't say so, the politicians
21 don't say so. You just got to imagine
22 that British politicians on both sides of
23 the equation have weak hands, and so they
24 bluff all day long. The only thing
25 they've got to bluff with is hard Brexit.

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1 There really isn't anything else. So it's
2 become a little bit of a side show.

3 They'll figure out a deal, put
4 something in the future. As I'm still a
5 British citizen, dual citizenship, I hope
6 that they have a second referendum;
7 because why would you want your child or
8 grandchild to go from having a passport
9 that's eligible in 28 countries to a
10 passport that's just eligible in just one?
11 And that's without talking about anything
12 else.

13 CHAIRPERSON ADLER: We should make
14 all of our children dual citizens.

15 MR. MORGAN: I know we made bad
16 political decisions here in the last few
17 years as well. So be careful as I say,
18 the worst political decision in
19 generations. It deserves to be part of
20 the conversation.

21 But there's a risk there. There's a
22 risk of Italian politics being being messy
23 and impacting the periphery there. I
24 think they're relative sideshows. I don't
25 think they're going to drive markets. I

0030

1 think it's really the U.S. versus China
2 that drives markets, and it's the Fed
3 versus the economy that drives markets as
4 well.

5 The positive aspect of market prices
6 falling at the end of the year has made
7 some asset classes quite interesting in
8 terms of investing going forward. So, for
9 many, many years -- this time last year we
10 would have said there's no markets that
11 are cheap. We said there's a lack of
12 opportunity anywhere in the world.

13 Today we have credit markets that are
14 repriced. They're not all the screaming
15 buys. They're all much more interesting
16 than they were a year ago, and suggest

17 more attractive returns going forward from
18 here.

19 MS. PELLISH: When you say credit
20 markets --

21 MR. MORGAN: Anything below
22 investment grade, anything with credit
23 risk sold off either all year long or
24 progressively as the year went to a close,
25 and aggressively in December.

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1 So something like high yield. Bank
2 loans had a really bad December alongside
3 the equity markets. So the bank loan
4 market, for example, has an average price
5 of 93 today. It doesn't mean that it's a
6 screaming buy, it just means you've got a
7 floating rate coupon which is attractive
8 in today's world; Libor results 3 percent.

9 You've got an attractive coupon of 5
10 and a half or 6 percent, and a discount to
11 7 percent off of a market where we expect
12 volatility going forward and we expect
13 credit risk, but we also expect that we
14 will get paid reasonably well for taking
15 that risk.

16 High yield also sold off. High yield
17 has more challenges to it, but it is
18 cheaper today than it was a year ago;
19 other markets in the credit world which
20 are more interesting, something like your
21 OFI program, can take advantage of.

22 We've also seen, I would say, not only
23 prices fall towards the end of the year,
24 but liquidity fall at the end of the year.
25 And something like the OFI program is

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1 designed to take advantage of liquidity to
2 credit markets when we enter a period like
3 late December, when the -- are hung with a
4 variety of different types of asset
5 situations they don't want to keep on
6 their balance sheet, they're willing to
7 part ways with that patient capital
8 liquidity providers, and like your OFI
9 program, at a discount, basically.

10 So we would hope when the dust settles
11 and we start getting reports of what
12 happened in December, that the OFI program
13 has been a big beneficiary of the fallen
14 liquidity in December.

15 I will stop there.

16 CHAIRPERSON ADLER: Questions?

17 MR. KAZANSKY: I've got a question
18 about the Fed and the interest rates. So,
19 prior to like the global financial crisis,
20 the ten year Treasury rate was much

21 higher, 3 or 4.

22 MR. MORGAN: Yes.

23 MR. KAZANSKY: So I understand that
24 when the crisis hit that, in order to put
25 more credit out there to folks, we brought

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1 the interest rates down.

2 So, do you ever see it getting back up
3 into the 3s and 4s? Would it make sense
4 to bring it back to where it was? Or are
5 we in a different universe now where, you
6 know, high 3s or even low 4s are just not
7 possible?

8 MR. MORGAN: I think it's a really
9 good question, and it's one that we
10 struggle with all the time. Because if
11 you ignore what's actually happened in the
12 last fifteen years, for example, actually
13 go back before the credit crisis. Just
14 think about what components of the economy
15 have been important in figuring out what
16 the right level of interest rates should
17 be. The only conclusion you can come to
18 are that rates should be quite a bit
19 higher than they are today.

20 Under normal situations, the ten year
21 Treasury is actually tracking nominal GDP
22 very closely. So nominal GDP is whatever
23 GDP is, around 3 percent today, plus
24 inflation, call it 2 for argument's sake;
25 it suggests a 5 percent ten year Treasury

0034

1 rate.

2 And through time, that's been a pretty
3 good guesstimate of where the ten year
4 Treasury should be. Today it was 264,
5 this morning.

6 So I know you are all teachers and sit
7 in front of a classroom and say, "I told
8 you this five times, why didn't you
9 understand? Do I have to tell you a sixth
10 time?" We have sort of the same

11 feeling when we talk about interest rate
12 outlooks with clients; because for --

13 MS. PELLISH: My whole career.

14 MR. MORGAN: -- you whole career, for
15 a long time now, every year we have
16 meetings like this or any meeting with a
17 client, and the expectation is that
18 interest rates are going higher. Every
19 meeting, almost without fail.

20 And I think one of the things we've
21 tried to do in meetings like this is say,
22 we understand that rates look like they
23 should be higher. But for all of this
24 period of time they've confounded what we

25 would have expected. So you should learn

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1 something from that, that there's
2 something else going on that we can't
3 quite explain. We can rationalize, but we
4 can't quite explain.

5 So the rationalization, as I suggest,
6 is massive amounts of global debt, way
7 more than there was pre-credit crisis.
8 The credit crisis, as explained, there was
9 too much debt. Today we've got a lot
10 more. So how is it the economy is
11 functioning nice and fine, yet we've got
12 way more debt? What does that all mean?

13 I don't know if it's an explanation,
14 it's a rationalization, that if rates
15 actually rose to 5 percent as suggested by
16 the nominal GDP that I just talked about,
17 it would strangle the global economy to a
18 standstill.

19 Who could pay much higher interest
20 costs? Businesses couldn't. They've been
21 enjoying borrowing at next to nothing for
22 a long period of time. Many businesses
23 that could borrow at much higher interest
24 rates still function fine, like your
25 Apples of the world. But most of the

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1 below investment grade couldn't withstand
2 a percent or two higher in interest rates.

3 So, I agree, it's always looked like
4 rates should be higher, but it hasn't
5 happened. So there's some other
6 explanation.

7 The other thing to point out is, we
8 still have quantitative easing in parts of
9 the world. Japanese liquidity into
10 markets, European Union, CCB is still
11 playing with liquidity into markets.

12 There's still trillions of debt that
13 has a negative yield on that. Imagine
14 that.

15 Years ago Robin and I had a smart guy
16 who worked for us and he and I sat around
17 and said, "Could interest rates be
18 negative?" It was just a thought
19 experiment. We didn't think -- we came up
20 with the answer that they could. We
21 didn't it would actually happen.

22 And then, not only did it happen, but
23 trillions of global debt now have a
24 negative interest rate to them. So think
25 about that. If you're in Germany and

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1 you're an insurance company that has to
2 make a spread from fixed income markets to

3 build a function as an ongoing insurance
4 company, you have to find somewhere in the
5 world that you can earn that spread.

6 You can invest in your own securities,
7 in Germany -- export capital. Many
8 regions of the world they have to export
9 capital. To them, our interest rates
10 don't look low, they look high. German
11 ten year is I think around zero, maybe
12 slightly negative; ours is 264. That's a
13 big spread.

14 You pay for that through hedging of
15 currencies today. But you still are able
16 to pick up significant yield from being
17 able to do that. The Japanese, big
18 exporters of capital, and have been for
19 more than a generation, because very
20 little returns from their fixed income
21 assets.

22 So all of that capital from those --
23 needs to find somewhere to get invested.
24 And I don't see that changing. This still
25 is a safe harbor, if you like, in global

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1 financial markets, for being able to
2 invest a lot of money.

3 If you ever think about the size of the
4 Chinese reserves, as one additional
5 example. If you have a hundred billion
6 dollars to invest in a quarter, because
7 that's what you accumulated in reserves,
8 where else are you going to go? There
9 isn't anywhere else to go.

10 There's nowhere else to go, other than
11 sticking that money under the proverbial
12 mattress. If you want to invest in
13 something that will pay you a return and
14 give your money back in a few months'
15 time, you have to come to the U.S. for
16 that kind of size.

17 So I think that we're the beneficiary
18 of global flows. I think we're the
19 beneficiary of quantitative easing. I
20 think we're the beneficiary of this
21 massive amount of global debt that we've
22 got.

23 So we should at some point get back to
24 higher rates. I don't see the path today.

25 MR. DORSA: I have a question. I

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1 read an article this morning -- glanced at
2 an article -- that mortgage applications
3 were down approximately 10 percent in
4 2018. We have debt-ridden recent college
5 graduates, folks that graduated in the
6 last ten years and are saddled with debt

7 from educational loans.

8 Does that come to a head if we're
9 entering a period where people can't sell
10 a house, or if there are less applications
11 I presume there's less turnover of
12 housing. Does this repeat into what
13 happened in 2008?

14 So you have the added component of the
15 educational debt saddled on top of that;
16 in the periphery in 2008, really more
17 about mortgages, other things.

18 Do we see that come to a head this
19 year?

20 MR. MORGAN: I think that's two
21 questions, really. The last page of the
22 presentation we handed out talks about the
23 housing market. The housing market -- I
24 think -- where I get most excited is,
25 there is a common perception in the

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1 marketplace fueled by the press about a
2 particular theme, which totally misses the
3 actual fundamentals.

4 And then -- to bring together what we
5 think we know with what's out there in the
6 press and say, "No, actually things are
7 different, you should have a different
8 expectation of this." And I think the
9 housing market is a great example.

10 So I agree that the press has been
11 setting this up for a long period of time,
12 house prices have been rising for years
13 now, therefore we must have a bust.

14 Because in our recent memory we had the
15 biggest real estate bust that the
16 residential market ever had in real terms.

17 So it's sort of front and center as the
18 last worry, if you like, as housing is
19 concerned.

20 But think about that statement again.
21 This isn't my statement. This was from
22 Nobel Prize winner Bob Schiller, who said
23 the last housing bust was the biggest
24 housing bust in real terms that we've ever
25 had in economic history.

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1 I take from that, it doesn't happen
2 that often (laughter). It should be
3 anomalous. It takes generations to set up
4 for something that bad.

5 So it shouldn't happen again. That
6 doesn't mean it won't, but it shouldn't
7 happen again. So why should we feel like
8 it shouldn't happen again?

9 First of all, interest rates are
10 higher, were higher, a few months ago, hit

11 mortgage rates. That's going to abate
12 here. So it's going to be more
13 affordable, you will actually see in the
14 next month or two, start to see articles
15 that talk about how mortgage rates are
16 higher -- we should have a great spring
17 for house buying for a period of time.

18 It's totally reasonable to expect that
19 with rates rising that we slow mortgages
20 as we get into 2018, that we slow mortgage
21 activity.

22 The part about student debt has changed
23 the complexion of what homes young people
24 live in. They don't buy a home. They
25 don't have the down payment anymore. They

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1 have the monthly check. They don't have
2 the down payment anymore because of all
3 that debt. So they rent.

4 So, where you live, I'm sure there's a
5 building going up close to you that is
6 going to be for rental everywhere. I live
7 in Westchester, just about every postage
8 stamp space of free land is having a new
9 apartment building built on it. So, a
10 changing complexion of what homes
11 individuals live in.

12 Back to home prices. We see home
13 prices -- and this isn't a quarter by
14 quarter statement, this is for many years
15 to come -- a slow gradual stability to a
16 general rising of prices over many, many
17 years from here.

18 Why do we say that? One of the impacts
19 of the credit crisis was the decimated
20 home building. It destroyed all the home
21 builders. Their capital structure was
22 gone, they lost a lot of money on land,
23 and so forth.

24 We have built far fewer houses in the
25 last decade than we built -- even if you

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1 take the period of time right before the
2 credit crisis, go back another ten years
3 and take the ten year average of the
4 number of homes that we built from, say,
5 1990 to 2000, we're still building far
6 fewer houses today than we did during that
7 period of time. And our population is 30
8 million larger than it was at that point
9 in time.

10 So not we're not building -- this is
11 not just homes for sale, this is also for
12 rental homes -- we're not building
13 anything like the number of homes we built
14 historically.

15 So, as the population grows, as
16 employment continues to inch up, we should
17 see stability. We'll see sort of quarter
18 by quarter, mortgage rates are up versus
19 down, easy to get a mortgage, hard to get
20 a mortgage. You'll see some changes in
21 the pace of activity.

22 You're going to see still some
23 headlines in the next few months about
24 home builders fretting about inventory and
25 where they are. But we should see general

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1 stability and improvements over years to
2 come from here, in our view; with the one
3 exception, if we do have a significant
4 recession, things should change. But
5 without that I think we should have
6 stability.

7 CHAIRPERSON ADLER: I have a question
8 about China. Historically we have not
9 invested in Chinese equity. And we are
10 considering potentially a policy change.
11 It sounds like you're saying that it's not
12 a bad time to go into China, because
13 pricing has dropped and Chinese equity is
14 priced more attractively now.

15 On the other hand, absent a resolution
16 to the trade war, prospects for the
17 Chinese economy are questionable.

18 So what would your advice to the Board
19 be about going to China at this point?

20 MR. MORGAN: I think you should be
21 looking to invest in China, certainly. I
22 think there's lots of pitfalls, lots of
23 challenges; but China is becoming a larger
24 portion of the global equity market.

25 So I think one of the internal

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1 conversations we have at Rocaton today is,
2 it's a larger portion of an emerging
3 market equity portfolio today, and will
4 only grow significantly. So we're asking
5 ourselves a question -- we haven't come to
6 an answer yet -- but we can see at some
7 point in the next few years where we have
8 dedicated China equity allocations that we
9 take outside -- maybe not outside, but add
10 on to an emerging market equity allocation
11 a dedicated China allocation; because you
12 can't get enough of China from just having
13 an emerging markets portfolio.

14 If you look across the globe and what
15 has really sort of moved the U.S. market
16 in the last decade through the
17 technological sphere, there's a couple of
18 places elsewhere in the world that have

19 strong components of technology and
20 innovation driving their equity markets,
21 places like Israel, for example, or India,
22 or China.

23 So most of the rest of the world has
24 old industry exposure when you invest in
25 the equity market. There's only a

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1 relatively narrow set of places globally
2 where you can invest and have access to
3 innovation. So having access to
4 innovation is important going forward.

5 There is a further reason I think that
6 you should consider Chinese equity
7 exposure. It's a large economy, its
8 equity market is only going to grow in
9 market cap; and I think it's going to have
10 lots of trials and tribulations, just in
11 the way our own market economic history
12 has in the last couple of hundred years.
13 It's not going to be a straight line, it's
14 going to go up and down and have a lot of
15 volatility. And access is not that easy,
16 and there are not that many products to be
17 able to get a direct access to it today.

18 But I think it absolutely should be
19 part of what you consider long term
20 opportunities.

21 CHAIRPERSON ADLER: Thanks.

22 Other questions?

23 MR. BROWN: Do you have any thoughts
24 about what's happening in Brazil with a
25 Trumpian type person there? Any thoughts

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1 about that, how it might affect --

2 MR. MORGAN: I'm a little colored
3 because I watched a Michael Moore
4 documentary the other night, so more
5 negative than normally on this type of
6 thing.

7 I thought it was interesting, watching
8 the PBS evening news last night, the
9 section on the swearing in of -- Bolsonaro
10 had various foreign leaders share the day
11 with him, and it was a who's who of who
12 you wouldn't want to hang out with
13 (laughter). Put it that way.

14 I think the rise of populism generally
15 is disturbing across the globe. What I
16 think is a little more complicated about
17 Brazil is, from a political standpoint
18 sort of view and the way he handles
19 himself, there's a lot of things to be
20 concerned about with Bolsonaro.

21 What sort of mitigates that a little
22 bit is how seemingly excited -- not an

23 immaterial portion of the Brazilian
24 population is for somebody like that. And
25 it's easy to make parallels with how it

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1 feels with, like the same group that likes
2 Trump likes Bolsonaro in Brazil. But I
3 think it cuts way across that.

4 I think Brazilian politics has been an
5 ugly place for a long period of time. The
6 population feels let down by -- and
7 looking for somebody who can deliver
8 better times and create some change.

9 It's alarming that they have to choose
10 somebody like that, to try to deliver
11 that.

12 But Brazilian equity markets, if we had
13 a charter from the page of all equity
14 market performance from 2018, it's a sea
15 of red with one green light, and that's
16 Brazil. That was Brazil based on their
17 reaction to Bolsonaro. Also the fact that
18 they've had a recession market and crashes
19 for sort of a long period of time looking
20 backwards -- large part because of
21 Bolsonaro as well.

22 So I have mixed feelings on that, as
23 anything else.

24 To add, again, Michael Moore doesn't
25 feel that positive about lots of things.

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1 There's a couple of really big
2 humanitarian crises going on in the world.
3 One is Yemen. Another that doesn't get
4 anywhere near as much play time is
5 Venezuela. So Bolsonaro, with all the
6 negative things about him, if he was able
7 actually to get Latin America and maybe
8 with U.S. help to do something positive
9 for the people of Venezuela, that would be
10 one thing to look forward to that might be
11 a positive in Latin America.

12 MS. STANG: Question on the trade war
13 with China. You said it's never been a
14 level playing field, and I agree. Has the
15 trend been positive towards a more level
16 playing field, or has the trend been
17 negative?

18 MR. MORGAN: It's been moving in the
19 right direction -- if you go back 30 or 40
20 years, there was no trade with China. So
21 we're going from, obviously there's no --

22 MS. STANG: The trend's been
23 positive.

24 (Talking over each other.)

25 MR. MORGAN: We have no tariffs

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1 because we wanted them to sell us cheap
2 things. They said, "We want to sell you
3 cheap things, we won't let your stuff in
4 or else we won't ever be able to get
5 started."

6 So gradually they're moving in the
7 right direction, but we came in, we said
8 no, no --

9 MS. STANG: That's what I thought.

10 MR. MORGAN: -- so it's been moving
11 in the right direction. This is what the
12 false narrative is, because it's not a
13 level playing field, they're just cheating
14 on us.

15 They're not. We agreed that we wanted
16 to trade with them on these terms.
17 There's no trade agreement in place today
18 that wasn't mutually agreed upon between
19 both parties; right? So these are the
20 trade deals we negotiated, that we were
21 happy with, and that over time we managed
22 to improve.

23 Yet the narrative is that we're being
24 --

25 MS. STANG: Yes.

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1 MR. MORGAN: -- taken advantage of in
2 many, many different ways, which is just
3 not the case.

4 MS. STANG: We established that,
5 thank you.

6 CHAIRPERSON ADLER: Anything else for
7 David?

8 MS. PELLISH: So, I find these kind
9 of comments really helpful in putting the
10 myriad of facts and data we see all the
11 time, a framework for thinking about the
12 world and global capital markets. And I
13 think it's also very relevant for how we
14 think about the asset allocation,
15 particularly of the pension fund, the
16 variable funds, don't use as many asset
17 classes.

18 And so, one of the questions -- and I'm
19 sorry it was scheduled at a time when Mike
20 couldn't join us, I know he has the same
21 issues. I think one of the main questions
22 that this begs is, okay, what should the
23 duration of the bond portfolio in the
24 pension fund be?

25 And this, we're above market but below

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1 target. And that's been a very deliberate
2 policy. And so I think we should be
3 talking about that. We have been talking
4 about it. Certainly it's not been an

5 issue. We, nor the Bureau of Asset
6 Management have ignored it in any way,
7 shape or form. But it should be something
8 that we should continue talking about.
9 Maybe we can consider where we are on the
10 implementation pace for long bonds.

11 And I think David brought up points
12 about the credit markets, taking a fresh
13 look at OFI, which I know we are doing,
14 we've had an opportunity.

15 In terms of our investments in global
16 equity markets, I'm not sure, unless we
17 rethink the weighting to those markets,
18 I'm not sure there's much to do. We
19 basically have largely a beta exposure to
20 global capital markets with global equity
21 markets, with an emphasize on the U.S.

22 And I don't think that anything David
23 said leads us to reconsider that at this
24 point. So, I think it's really a focus
25 on, What should we be doing in the fixed

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1 income market, if anything different?

2 CHAIRPERSON ADLER: Including the
3 risk fixed income, like the high yields.

4 MS. PELLISH: Yes.

5 CHAIRPERSON ADLER: Kind of
6 interesting. There was this uptick at the
7 end of the fourth quarter in the spreads.
8 And is that a trend that we expect to
9 continue, or do we think it's a blip? It
10 sounds like you think there's some
11 interesting things going on in high yield,
12 but there's other credit markets that are,
13 I think in your nomenclature, more
14 interesting, like in the OFI space.

15 MR. MORGAN: In terms of the
16 question, Is it going to continue or not?
17 Exactly three years ago we had a period
18 like this. Early 2016 when credit sort of
19 froze up first week of December, it looked
20 like Deutsche Bank was going to fail --
21 most junior debt securities. In a few
22 weeks' time that turned out not to be the
23 case, and we had a big rally from then on
24 in credit. And we forgot about the
25 volatility that we had.

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1 So this feels like it should be more
2 like that; partly because the economy is
3 still strong, even though interest rates
4 are up, credit spreads are up, interest
5 costs for highly leveraged companies are
6 higher.

7 It doesn't feel like the economy's
8 going to go off a cliff. It feels like it

9 should slow. It doesn't feel like we
10 should have a major recession, a major
11 credit recession, as a result of that.

12 So the vulnerability of high yield
13 generally, though, is that most sensitive
14 piece to sort of the capital structures of
15 the specific companies. It's more junior
16 in their capital structure -- to something
17 like bank loans.

18 So you worry a little about, if the
19 economic trajectory I just outlined, if
20 things turn out worse then it will be
21 worse for something like high yield. In
22 something like bank loans, with senior
23 capital structure, same floating rate in
24 those companies. The Libor has been only
25 rising, the floating rate, reference rate

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1 has only been rising throughout all of
2 2018. So that's sort of another tailwind
3 at the back of bank loans.

4 Bank loans can combine into low 90s
5 like you have today -- in markets, offers
6 some pretty decent value from our
7 perspective.

8 Some other parts of the credit markets,
9 which is emerging markets, fixed income or
10 capital securities issued by banks. You
11 can buy -- I don't know which bank, which
12 is your favorite bank of the Teacher
13 Trustees rather than the least favorite.

14 The major banks in the U.S., if you
15 look at their junior level of capital
16 securities, today are paying 6 1/2 to 7
17 percent in preferred markets; 6 1/2 to 7
18 percent for JPMorgan. I'm not sure if
19 they're your favorite or least favorite,
20 but that to me is a level of compensation
21 for a fixed income investor, even that far
22 down the capital structure, shouldn't
23 actually exist in today's world.

24 And it's a rock solid bank outside of
25 the U.S.; HSBC, 8 to 9 percent. HSBC is a

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1 very conservative run, stable bank.

2 So there's little pockets of
3 opportunity that have grown over the last
4 few months here that we find quite
5 interesting in the credit space.

6 MS. PELLISH: But it would be hard to
7 take advantage in our asset allocation,
8 because they do tend to be these niches.
9 So it would have to be through a manager's
10 mandate to have flexibility, which is the
11 OFI.

12 Anything else for David?

13 (No response.)

14 Thank you.

15 We can move on.

16 CHAIRPERSON ADLER: Yes, please.

17 MS. PELLISH: We want to take a very
18 few minutes to talk about the investment
19 policy statement. And I say a very few
20 minutes, because to key members of the
21 working group, Susannah and Valerie, are
22 not able to join us today.

23 The decision to include this in today's
24 agenda is really to call the Board's
25 attention to the work that's been done

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1 thus far in restructuring the investment
2 policy statement for the qualified pension
3 plan.

4 There is another investment policy
5 statement for the variable funds. That
6 also will have to be updated.

7 This is, as you know, work that's been
8 going on for many months. There's been a
9 working group that spent a lot of time
10 drafting and redrafting this document.
11 And what you have today in front of you is
12 not the final document, but it is very
13 close to final; and we thought
14 sufficiently close to final so that,
15 between today's meeting and February's
16 meeting, we would encourage you to take a
17 look at the language and the structure of
18 this document.

19 It's been significantly changed from
20 the prior version, which you can see was
21 adopted about 12 years ago, final form.
22 We updated it to reflect all the work
23 that's been done at the board level in
24 terms of defining investment beliefs, in
25 terms of defining asset allocation, and

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1 other policies.

2 We tried to make it more user friendly,
3 so it's been streamlined. We added the
4 executive summary. We added the
5 investment beliefs that the Board adopted
6 a month or two ago. And we extracted the
7 policies to be exhibits, so that the
8 exhibits are intended to be more dynamic
9 elements of the IPS. The body of the IPS
10 is intended really to describe the
11 policies and procedures that are unlikely
12 to change in the near term. For example,
13 the asset allocation policy might change,
14 other policies might change; those have
15 been included as exhibits.

16 So, our hope is that we can have a

17 session in the February meeting focused on
18 this document in which we get some
19 feedback from the Board on the substance
20 of the document and the overall structure.

21 MR. DORSA: If I may, I want to say
22 -- she's not here, but thank you to Diane
23 -- from the Comptroller's Office, who had
24 been helping --

25 MS. PELLISH: Enormously.

0059

1 MR. DORSA: -- move all this around
2 into a workable document. And as you can
3 imagine, I think Robin alluded to, a lot
4 of people had a hand in crafting this. I
5 think people really looked at sections of
6 this to try to make it as user friendly as
7 possible. It's a struggle. I was here
8 when they did this, and so you were you,
9 in 2006.

10 And it's always been a very cumbersome
11 document. I think this document, if I do
12 so say myself, is much more user friendly,
13 not only for Trustees and BAM staff, but I
14 think the general public that wonders what
15 it is we do and how we go about doing
16 things.

17 I just wanted to say -- the other
18 thing, I Diane would want me to say this
19 is -- at the very end we'll go back
20 through the table of contents and make
21 sure everything matches up, things like
22 that.

23 And gone through -- even looking at
24 different fonts to make more it's more
25 appealing to people as they go through it,

0060

1 it won't hurt your eyes. Any comments and
2 things like that we're happy to take in
3 e-mail form, if you have a particular font
4 you would like (laughter).

5 And I want to thank Robin for really
6 keeping us on track and adding a lot of
7 her unique ability to pull out things that
8 -- she's around for through the years, so
9 she knows will come up. On a personal
10 note I appreciate that. Thank you.

11 MS. PELLISH: My pleasure.

12 To be discussed further. We will
13 continue the working group. We'll
14 continue to spend some time on this,
15 making sure -- I think the issue now is
16 making sure everything flows in a way that
17 makes sense to the reader. But it is very
18 close to its final form, I think it's
19 appropriate to get feedback.

20 CHAIRPERSON ADLER: Any questions for

21 Robin or other members of the working
22 group at this time?

23 Thank you, Robin.

24 MS. PELLISH: That concludes the
25 public session.

0061

1 CHAIRPERSON ADLER: If there's no
2 other business on the public agenda, I
3 would entertain a motion to exit public
4 session and enter executive session.

5 MS. PENNY: I move, pursuant to
6 Public Officers Law Section 105 to go into
7 executive session for discussions on
8 specific investment matters.

9 CHAIRPERSON ADLER: Is there a
10 second?

11 MR. KAZANSKY: Second.

12 CHAIRPERSON ADLER: Thank you.

13 Any discussion?

14 (No response.)

15 All in favor of the motion to exit
16 public session and enter executive session
17 please say "Aye."

18 (A chorus of "Ayes.")

19 All opposed say "Nay."

20 Any abstentions?

21 (No response.)

22 Meetings carries.

23 (Recess taken.)

24 (Whereupon, the Board entered executive
25 session.)

0062

1 CHAIRPERSON ADLER: Is there a motion
2 to exit executive session and go back into
3 public session?

4 MR. DORSA: So moved.

5 CHAIRPERSON ADLER: Thank you.

6 Is there a second?

7 MS. PENNY: Second.

8 CHAIRPERSON ADLER: Any discussion?

9 (No response.)

10 All in favor of the motion to exit
11 executive session and go back into public
12 session please say "Aye."

13 (A chorus of "Ayes.")

14 All opposed say "Nay."

15 Any abstentions?

16 (No response.)

17 It's unanimous.

18 Liz, let us know when we're back.

19 (Whereupon, the Board returned to
20 public session.)

21 CHAIRPERSON ADLER: We're back in
22 public session.

23 Susan, would you please report out of
24 executive session?

25
0063

1 MS. STANG: In executive session a
2 policy matter exception was discussed.
3 Consensus was reached, which will be
4 announced at the appropriate time.

5 CHAIRPERSON ADLER: Thank you very
6 much.

7 I believe that concludes our business
8 for today.

9 Is there a motion to adjourn?

10 MR. BROWN: So moved.

11 MR. KAZANSKY: Second.

12 CHAIRPERSON ADLER: Any discussion?

13 (No response.)

14 All in favor of the motion to adjourn
15 please say "Aye."

16 (A chorus of "Ayes.")

17 It's unanimous. The meeting is
18 adjourned.

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21 (Time noted: 12:19 p.m.)

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0064

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

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I, Jeffrey Shapiro, a Shorthand
Reporter and Notary Public, within and for the
State of New York, do hereby certify that I
reported the proceedings in the within-entitled
matter, on Thursday, January 3, 2019, at the
offices of the NEW YORK CITY TEACHERS RETIREMENT
SYSTEM, 55 Water Street, New York, New York, and
that this is an accurate transcription of these
proceedings.

IN WITNESS WHEREOF, I have hereunto
set my hand this 7th day of January, 2019.

JEFFREY SHAPIRO