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Proceedings

NEW YORK CITY TEACHERS' RETIREMENT SYSTEM
INVESTMENT MEETING

Held on Thursday, September 6, 2018, at 55 Water
Street, New York, New York

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ATTENDEES:

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JOHN ADLER, Chairman, Trustee
THOMAS BROWN, Trustee
DEBRA PENNY, Trustee
ANTONIO RODRIGUEZ, BERS
SUSANNAH VICKERS, Trustee, Comptroller's Office
DAVID KAZANSKY, Trustee
PATRICIA REILLY, Teachers' Retirement System
MELVYN AARONSON, Teachers' Retirement System
JOHN DORSA, Comptroller's Office
MICHAEL HADDAD, Comptroller's Office

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REPORTED BY:

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ATTENDEES (Continued):

SUSAN STANG, Teachers' Retirement System
RON SWINGLE, Teachers' Retirement System
MICHAEL FULVIO, Rocaton
JOE NANKOF, Rocaton
THAD McTIGUE, Teachers' Retirement System
VALERIE BUDZIK, Teachers' Retirement System
LIZ SANCHEZ, Teachers' Retirement System
SHERRY CHAN, Office of the Actuary
DAVID LEVINE, Groom Law Group
KOMIL ATAED, Teachers' Retirement System
NIKOLAI RADEV, Comptroller's Office
MILES DRAYCOTT, Comptroller's Office
ALEX DONE, Comptroller's Office
CYNTHIA COLLINS, Mayor's Office

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2 MR. ADLER: All right, good morning
3 everyone.
4 Welcome back. This is the Teachers'
5 Retirement System of the City of New York
6 Investment Meeting for September 6, 2018.
7 Patricia, will you please call the roll.
8 MS. REILLY: John Adler?
9 MR. ADLER: I am here.
10 MS. REILLY: Thomas Brown?
11 MR. BROWN: Here.
12 MS. REILLY: David Kazansky?
13 MR. KAZANSKY: Present.
14 MS. REILLY: Lindsey Oates?
15 Debra Penny?
16 MS. PENNY: Here.
17 MS. REILLY: Susannah Vickers?
18 MS. VICKERS: Here.
19 MS. REILLY: We have a quorum.
20 MR. ADLER: Good. Thank you very much.
21 So let's start in our public agenda and
22 I will turn it over to Michael Fulvio to do
23 our performance report.
24 MR. FULVIO: Maybe we will start off
25 with the ancient history of the fiscal year

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2 ending June 30, 2018. So if everyone wouldn't
3 mind the larger book that was handed out, turn
4 ahead to Tab 5. Behind there, it's page 21.
5 Go through the high-level fiscal year results
6 for the Passport Funds.
7 So at the end of the fiscal year ending
8 June 30, 2018, you could see at the top of the
9 page the Diversified Equity Fund had assets of
10 about \$15.6 billion. The fiscal year-to-date
11 return under the one-year column there for the
12 fund was about 12.1 percent compared to the
13 hybrid benchmark about 12.8 percent and 14.8
14 percent. So I think the biggest takeaway here
15 when we look at these results for the fiscal
16 year was the best place to be last year was in
17 U.S. equities. And that plays out not only in
18 terms of the performance of the underlying
19 pieces of Variable A, the Diversified Equity
20 Fund, but also when you look at some of the
21 returns for the other options. There was also
22 some relative performance detraction from
23 active management within the U.S. portion of
24 the Diversified Equity Fund as well as the
25 defensive portion, but what really drove the

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2 absolute returns of the fund here you can see
3 was the large allocation to U.S. equities,
4 U.S. equities being up about 15 percent last
5 year.

6 Non-U.S. equities returned about half
7 that last year with about 7.4 percent return
8 for the International Composite of Variable A.
9 The defensive composite could not keep pace
10 with the broad equity markets, as we couldn't
11 expect it to. That returned about 6.7
12 percent. That lagged its respective benchmark
13 by a few percentage points. That benchmark
14 was up by about 11 percent last year. And
15 then I mentioned the relative performance of
16 the active U.S. equity strategies. That
17 composite was up about 12.9 percent and that
18 lagged the Russell 3000 by about 1.9 percent.
19 So the active management within the
20 International Composite did contribute to
21 positive relative results there.

22 For The Balanced Fund you will recall
23 that that fund was incepted on January 1,
24 2018, so we have a six- month return for the
25 fiscal year there. That fund was down about

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2 40 basis points and lagged its benchmark
3 slightly by about 20 basis points. Assets
4 there have been somewhat static and continue
5 to be around \$380 million. For the
6 International Equity Fund, you could see about
7 \$155 million in assets as of fiscal year end.
8 That fund last year was up about 7.1 percent
9 ahead of its benchmark, which you recall is
10 comprised of both developed and emerging
11 markets. I will make a quick comment there.
12 For the fiscal year last year, developed
13 markets were up about 6.8 percent and emerging
14 markets were up about 2.7 percent. So
15 emerging lagged not only for the fiscal year
16 as a whole, but also quite a bit so far year
17 to date which we will talk a bit more about
18 later.

19 As far as the Inflation Protection Fund,
20 assets there of about \$65 million. The fund
21 last year returned about 5.1 percent. That
22 was enough to exceed its custom benchmark by
23 about 1 percent, as well CPI which is about
24 2.9 percent for that twelve-month time period.
25 The Socially Responsible Equity Fund with

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2 assets of about \$205 million, last year you
3 will recall the strategy is focused primarily

4 on the large cap U.S. equity space. That fund
5 returned about 13 percent last year and that
6 lagged the S&P 500, which was up about 14.4
7 percent.

8 So we are going to talk a little bit
9 more about the more recent results with the
10 July reports, but I will pause there and see
11 if there are any questions on fiscal.

12 MR. ADLER: Any questions?

13 I have a couple of questions. So first
14 question is: Did I hear you right to say that
15 on international, developed markets were up
16 about 6.8 and emerging markets were about 2.7
17 or something like that?

18 MR. FULVIO: That's right, and this 2.7
19 refers to the custom Emerging Market Index.

20 MR. ADLER: So how is it that the
21 composite is up, the benchmark is up 7.04?
22 That's higher than either of those. Isn't it
23 made up of those two?

24 MR. FULVIO: It's actually a mix of the
25 underlying components passive benchmark, so

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2 it's -- if you look at the International
3 Composite which there is more detail on on
4 page 24, on the second half of the page the
5 composite there is actually made up of the
6 individual strategy benchmark components.

7 MR. ADLER: Growth value and so on.

8 MR. FULVIO: That's a great point, John.
9 So growth, this is an overarching theme we
10 have seen not only in the U.S. for the last
11 twelve months, but also in non-U.S. markets
12 growth has significantly outperformed value.
13 So the high level of the U.S., the growth
14 index last year was up about 22-1/2 percent
15 and the value index was up about 7-1/2
16 percent. And then in non-U.S. markets you can
17 see the EAFE growths was up about 9.8 percent
18 versus a value of about 4.9 percent. What
19 also helped contribute to the relative returns
20 there, John, was the inclusion of
21 international small cap which you can see was
22 up over 10 percent.

23 MR. ADLER: Okay. And one other
24 question, and you may be going into this more:
25 So typically the lag between the defensive

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2 strategies composite and its benchmark has not
3 been as great as it was this past year where
4 it's over a 400 basis point lag. And I recall
5 that we actually switched up the defensive

6 strategy this year to try -- because it had
7 been lagging in these kind of, you know, bull
8 markets. And so we changed it to try to
9 capture more of the upside and yet in an
10 up-year, substantially up-year, it apparently
11 underperformed more. Could you briefly
12 explain that?

13 MR. FULVIO: Sure, absolutely. So there
14 were a few things going on there:

15 The first being poor relative results
16 for the active managers within the composite.
17 So there is more detail for that on the top
18 half of the Slide 24. And you can see that on
19 a relative basis, the managers there generally
20 lag across the board or, I should say, lagged
21 across the board relative to their respective
22 benchmarks. What we have seen from these
23 managers is that they have actually been a bit
24 more defensively positioned relative to their
25 -- especially for the TAA-type strategies

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2 relative to their stock/bond mix. They have
3 been underweight U.S. equity which has not
4 helped them.

5 As far as the other thing that we did
6 change last year, which you might have noted,
7 was increasing to a certain degree the
8 allocation to convertibles within this
9 composite and the convertible strategy itself.
10 So when you look at the track record for one
11 of the convertible managers there, you will
12 note they have a long track record that links
13 both the conservative strategy that you were
14 transitioning from as well as the strategy
15 with a little bit of a higher-equity
16 sensitivity. So if you look at that
17 particular manager, you will see the last six
18 months was really more representative of the
19 new strategy that they have moved to there.
20 And in that case, convertibles has actually
21 lagged to a considerable degree the equity
22 market returns over the last six to twelve
23 months, so that's something else that caused a
24 lot of the overall -- I will call it the
25 general tracking between the defensive

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2 composite and the overall U.S. equity market
3 as well.

4 So not only are we concerned and always
5 looking at the relative returns for each of
6 the managers, but also how is the overall
7 composite tracking to the Russell 3 because we

8 do want a good amount of market participation.
9 In a 15 percent up-market, it's been really
10 hard to keep pace. So that's a very good
11 point.

12 MR. NANKOF: It's a function of the
13 "nature of the market" we have been living in
14 for the last six to twelve months which is
15 probably a used and overused term, but it
16 comes over and over maybe once every ten years
17 at least. It's a very narrow market; meaning
18 that not only did U.S. equity outperform every
19 other market on the planet, but even within
20 the U.S. market, as Mike noted, growth stocks
21 massively outperformed value stocks. Even
22 those that owned disproportionate share of
23 large cap growth stocks, which none of these
24 strategies owned, none of the defensive
25 strategies owned, you were destined for

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2 single-digit performance. The at-best, what
3 you see is like a 6 percent number for your
4 defensive strategy.

5 So given the nature of the market, there
6 really was nothing that you could do. Buy
7 other than large cap growth stocks in the
8 U.S., that would give you double-digit
9 returns. So there was no way these strategies
10 could have kept pace in the market we have
11 been living in for the last six to twelve
12 months. I think there is no other strategy
13 other than large cap growth. Even with the
14 QPP, half of its growth, half of its value, so
15 you did get double-digit returns.

16 I hope that makes sense. That's what we
17 have been living through over the last half a
18 year or so, if that helps.

19 MR. ADLER: Yes.

20 Any other question for Rocaton on the
21 fiscal year report?

22 MR. FULVIO: So on the July performance
23 report, that is the separate handout. You
24 will note the Diversified Equity Fund assets
25 exceeds \$16 billion. The first month of the

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2 fiscal year, particularly again for U.S.
3 equity, was a strong month. The U.S. market
4 was up about 3.3 percent. The Diversified
5 Equity Fund as a whole was up about 3 percent.
6 Non-U.S. markets during July were able to do a
7 better job keeping pace with the U.S.
8 developed markets. Actually, year to date
9 through July have been down by about 36 basis

10 points in U.S. dollar terms and emerging
11 markets are down about 4.7 percent in U.S.
12 dollars terms. I make that comment because we
13 are going to be talking more about foreign
14 currency later today. If you look at those
15 numbers in local dollar terms, the EAFE's
16 negative .36 return in U.S. dollar terms is
17 actually a positive 1.65 percent in local
18 currency and EM, which I mentioned down about
19 4.7 in the U.S. was down about 1.2 percent in
20 local currency. So dollar strengthening has
21 certainly been something that has had an
22 impact on absolute numbers here. As far as
23 the relative results, year to date the
24 Diversified Equity Fund has lagged the hybrid
25 benchmark by about 20 basis points. And I

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2 commented earlier on some of the relative
3 performance of the underlying composites
4 there; modest positive contribution from the
5 international portion and lagging on the U.S.
6 side and defensive strategy composite. The
7 Balanced Fund for the first month of fiscal
8 year '19, that fund was about up about 80
9 basis points roughly in line with its
10 benchmark. Year to date that fund is up about
11 half a percent. The International Equity
12 Fund, 160 million in assets. I mentioned the
13 stronger month for non-U.S. equities, that
14 fund was up about 2.7 percent in July.
15 Inflation Protection Fund, that fund had a
16 negative return. For July calendar year to
17 date, that fund is up about just shy of 1
18 percent. And the Socially Responsible Equity
19 Fund, that fund is up about 2.6 percent
20 lagging the S&P which up about 3.7 percent.
21 So year to date that fund is up about 7
22 percent, which is about 15 basis points ahead
23 of its benchmark.

24 MR. ADLER: Any questions on July?

25 MR. FULVIO: More ancient history.

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2 There is the August report. Very quickly
3 there, the U.S. just continued to do well.
4 August the Russell 3 was up about 3-1/2
5 percent, bringing the calendar year-to-date
6 return for the U.S. to about 10.4 percent. So
7 the rally continues to be strong. On the
8 international side, the composite benchmark
9 there was down about 1.9 percent. Through --
10 for the month of August developed and emerging
11 markets were roughly in line, both down about

12 1.9 percent. The defensive strategies
13 composite benchmark up about 2.6 percent and
14 the hybrid benchmark, benchmark up about 2.3
15 percent during August. The Balanced Fund
16 benchmark was up about 60 basis points in
17 August; both positive contributions from the
18 equity component and the fixed income
19 component there. I commented earlier on
20 international. And as far as the underlying
21 strategies for the Inflation Protection Fund
22 and the Socially Responsive Fund, both were
23 positive returns for August and positive
24 returns year to date.

25 I will pause there.

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2 MR. ADLER: Any questions on August?

3 So next item is the foreign exchange
4 hedging discussion.

5 MS. VICKERS: We have Mike Haddad and
6 Miles Draycott from BAM here to present
7 information that was presented at a summer
8 seminar to certain trustees, and we just
9 wanted everyone to hear. And if you don't
10 mind taking one and passing it down.

11 Sherry, do you mind moving down one so
12 they can sit there and everyone can hear them.

13 MR. HADDAD: So we are going to try --
14 and this is an educational seminar on FX
15 hedging without a recommendation. And we are
16 going to try to accomplish three things this
17 morning: Show that there is no excess return
18 from being -- having assets denominated in
19 foreign currencies; that there is increased
20 volatility in your portfolio to do so; and
21 that FX hedging strategy is relatively simple
22 to do, though there are several key
23 considerations if you make the decision to go
24 forward with that.

25 Miles and Nick have done a fantastic job

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2 with it. I am going to allow them to handle
3 the quantitative and technical part of it and
4 I am going to do the simpler part of it.

5 MR. ADLER: Nick, do you want to come
6 sit here because I actually heard this before.

7 MS. VICKERS: Does everybody know Nick?

8 MR. RADEV: I work with Miles.

9 MR. HADDAD: So why don't we flip on
10 background. And, just as a reminder, your
11 portfolio is currently invested in foreign
12 currencies in your equity portfolio and also
13 in a few different investments in your private

14 markets portfolio. And the policy that to
15 date you have and all other four systems is to
16 not hedge foreign currencies. As a reminder,
17 that was a decision you made as part of your
18 strategic asset allocation. So when you
19 approve an international equity portfolio,
20 both EAFE and EM equities, it was an unhedged
21 portfolio. So the policy of not hedging is
22 consistent with your strategic asset
23 allocation decision that you guys made in the
24 fall of '16. And the question we have posed
25 to ourselves that we are drawing you into the

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2 debate is, is it appropriate to not hedge
3 foreign currencies given what we are going to
4 try and show you. You get no excess returns
5 for doing it and it adds volatility to your
6 portfolio. And lastly, as a reminder, all
7 your liabilities are denominated in dollars.
8 So that's the backdrop of the question we are
9 challenging ourselves with and we're trying to
10 come up with an answer to that.

11 So if we flip to the next page, this
12 next page, this is a snapshot I guess as of
13 the end of July of all five systems combined.
14 That being said, your portfolio is very
15 similar to this. And across the vertical axis
16 is the different currencies in your portfolio
17 and across the horizontal axis is the
18 different asset classes. And I would draw
19 your attention to the first column, which
20 shows that roughly 19 percent of your
21 portfolios is invested in non-dollars and that
22 the great bulk of that is in the international
23 equity portfolio where 18.43 percent of that
24 19 is invested in foreign currency. So what
25 we are really talking about here that's

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2 important is the developed market
3 international portfolio and emerging market
4 equity portfolio. Those are the two things
5 that count. You can see some of the tag ends
6 in the different private markets where you
7 have exposure to non-dollars. And while they
8 exist, they are extraordinarily small relative
9 to the other ones so what we are really going
10 to focus on is public markets.

11 So with that, I am going to turn it over
12 to Miles and Nick to walk through, you know,
13 the three objectives that we laid out and what
14 we are going to try to talk to you about. And
15 the other thing I will just say is please

16 interrupt with questions along the way so we
17 don't get too far along.

18 MR. DRAYCOTT: I can't emphasize that
19 enough, to the extent that this devolves into
20 a discussion that's positive.

21 So on the next slide, I basically
22 iterate what Mike is saying. We have looked
23 at some of the literature and done our own
24 analysis, investigating what the expected
25 return and what I am going to term "passively

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2 accepting FX risk" is. What I mean by that is
3 investing in the global stock markets without
4 making a conscious decision as to which
5 currencies in which to take exposure. If you
6 just take that -- we have looked at the
7 consequence of just passively taking that FX
8 risk and concluded that the likely return of
9 the FX component of the return is very close
10 to zero. That being said, exposing the system
11 to that FX exposure does increase volatility.
12 So you are not being compensated for taking
13 risk is kind of the punch line of this
14 analysis and we will go into more -- some more
15 detail on that. So the consequence of that
16 observation is that we think by hedging, it
17 would be possible to constructing more
18 efficient portfolio. What I mean by "more
19 efficient" is same level of risk, higher
20 return. That's the sort of punch line, if you
21 will, that we hope to get to.

22 So the next slide. The first graph, so
23 that's 5. We look at the EAFE hedged returns.
24 So this is not your portfolio; this is the
25 EAFE Index. Just looking at the EAFE Index,

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2 we compared the cumulative unhedged return
3 with the cumulative hedged return. So 100
4 percent of every currency exposure is hedged
5 is what we mean by "hedged return." It's
6 totally passive. 100 percent of the exposure
7 is hedged and on the bottom you see the
8 difference between those two lines. So that
9 line on the bottom is essentially the currency
10 return. And you can see actually looking
11 backwards over this interval -- and anything
12 to do with FX, it's important to stipulate
13 it's over a particular interval. This choice
14 of interval can change the conclusion, but
15 over this interval you can actually see the
16 contribution to returns from currency is
17 actually negative. So that's the first

18 observation. Over this period comparing
19 hedged to unhedged returns, the difference is
20 the currency contribution and over this period
21 was negative.

22 Then we try to do the same analysis on
23 the following page. But here rather than
24 looking at cumulative returns, we are just
25 looking at annual returns. We are just saying

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2 comparing the hedged versus unhedged returns,
3 same index, MSCI EAFE hedged and unhedged.
4 And again the difference is the value added
5 which is on the bottom panel, the value added
6 of hedged. So we see, on average, it
7 increased the return to hedged. And the
8 average difference between this one-year
9 return over this period, the average
10 difference between hedged and unhedged return
11 is about 49 basis points. So that's kind of
12 the return argument.

13 Here, next page, we do the same thing.
14 But now again by "same thing," I mean look at
15 the same two indexes over the same interval.
16 Rather than looking at returns, we are looking
17 at one-year volatility and here we observe --
18 we look at the hedged versus unhedged
19 volatility and again on the bottom panel we
20 look at the difference. So that's -- that is
21 the -- that shows the reduction in volatility
22 as a result of hedging. And on average, we
23 note that there is a line through -- again,
24 the bottom panel is the difference and the
25 line across the graph is the average value.

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2 So on average over this period, one-year
3 volatility was reduced by about 225 basis
4 points. So fairly significant reduction in
5 volatility of this segment of your portfolio.
6 You invest in something very similar to this.
7 This is the index, not your actual holdings.

8 MR. HADDAD: And reduction is on the
9 EAFE portfolio itself.

10 MR. DRAYCOTT: Yes, just what the
11 reduction of EAFE Index would be if you hedged
12 the currency exposure. We are going to get to
13 looking at your specific portfolio shortly.

14 MR. KAZANSKY: So on the previous page
15 on 6, when you say that the annual returns
16 have a 49 basis point improvement on the
17 unhedged portfolio --

18 MR. DRAYCOTT: Versus the unhedged.

19 MR. KAZANSKY: Right -- then that would

20 really only reflect the 19 or so percent of
21 our total portfolio. Right, so we are not
22 seeing a 49 basis point improvement in the
23 entire portfolio, just in the 19 percent?

24 MR. DRAYCOTT: Absolutely. And what we
25 are going to get to on the next few slides is

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2 basically increasing the denominator. So,
3 first of all, we are going to shift to looking
4 at your portfolio, not an index. And then we
5 are going to look at the impact on just that
6 section of your portfolio, then all public
7 equities, all public markets, and then total
8 plan.

9 MR. KAZANSKY: Great.

10 MR. HADDAD: So just to answer your
11 question: It's not even 19 percent. It's
12 only the EAFE; it's not even EM. So it's only
13 12.

14 MR. DRAYCOTT: Absolutely, right. Yes.
15 And we will get into why we think it probably
16 only makes sense to hedge the exposure in EAFE
17 versus your EM exposure in just a minute.

18 MR. KAZANSKY: Okay, great.

19 MR. DRAYCOTT: So the last slide in this
20 series of slides comparing the EAFE Index with
21 the hedged versus unhedged EAFE Index, this is
22 page 8. So here we look at what the change in
23 the Sharpe ratio is as a result of 3x ante is.
24 So looking back what the change in the Sharpe
25 ratio was as a result of hedging and we note

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2 that the impact of hedging, the FX exposure
3 fairly materially increases the Sharpe ratio.
4 So it's an improvement in the Sharpe ratio is
5 saying we are improving the risk-adjusted
6 return. That's what the Sharpe ratio is
7 indicative of or, you know, more positive is
8 better. And this increases the Sharpe ratio
9 on average by 16 basis points. It's a
10 one-year Sharpe. We are just comparing, you
11 know, excess return between the index and the
12 risk.

13 So on the next slide, just an
14 observation, we have used the MSCI risk system
15 to do much of this analysis and we have been
16 discussing with Rocaton, far from coming to
17 conclusions, how it can be used to produce a
18 set of exposures or risks that should be
19 hedged and they are sort of -- objective of
20 the analysis to identify exposures that makes
21 sense to hedge without too negatively

22 impacting return. So basically set up an
23 optimization problem in the platform.
24 So I want to step back on the next page
25 just a little bit. This is page 10 now. And
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2 please interrupt if I am going too fast. I
3 want to mention in any consideration of
4 hedging currency exposure, you really need to
5 think about two very important considerations.
6 And one of them is well, what's the
7 correlation between the FX rate that you might
8 hedge and the portfolio returns. So how does
9 -- is the correlation between that FX rate
10 positive or negative. If it's negative, it's
11 actually desirable. What that's saying, it
12 helps to diversify the portfolio. And this is
13 actually the original assumption; maybe wasn't
14 articulated perhaps at the time. The
15 assumption of negative correlation was it
16 assumed, it was previously assumed until like
17 ten years ago, that the foreign exchanges
18 would help to -- all foreign exchanges would
19 help diversify the portfolio and the changes
20 that thinking has moved along and say, wait a
21 second, some of these exposures are not
22 helpful. And that's really what we are here
23 to talk about today. So the two
24 considerations are positively and negatively
25 and obviously you can't know the perfect --
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2 with the ability to foresee the future, you
3 wouldn't hedge negatively-correlated
4 currencies. So if you believe it's possible
5 to develop an expectation as to the
6 correlation between the FX rate and the
7 returns of the portfolio, then you wouldn't
8 hedge negatively correlated currencies. The
9 other very important consideration is well,
10 okay, hedging reducing vol, but the cost of
11 hedging reduces return. So in the case of EM
12 currencies, we think that the bid offer -- and
13 we modelled the bid offer in the analysis that
14 we implemented in the risk system. We looked
15 at the bid offer in FX forwards and concluded
16 in the less liquid FX markets, namely most of
17 the emerging market currencies, probably the
18 cost of hedging is too high. The benefit and
19 the reduction in volatility is outweighed by
20 the drag on returns that you would incur as a
21 result of the transaction cost of hedging.
22 And the next slide is somewhat
23 repetitive. The objective of the exercise is

24 to identify the currencies that are expected
25 to be negatively correlated and to identify
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2 the currencies where the cost of hedging would
3 outweigh the benefit. So finally we turn to
4 basically David's question from earlier which
5 is okay, what's the impact on this section of
6 our portfolio, what's the impact on the public
7 equity portfolio, what's the impact on the
8 entire public markets portfolio, what's the
9 impact on the entire portfolio. So we go from
10 kind of the most granular and we basically
11 increase the denominator over the next couple
12 of slides.

13 So the first one, we just look at the
14 impact of hedging the FX exposure of the EAFE,
15 your EAFE equity portfolio. We are no longer
16 looking at the index, the impact of hedging
17 your EAFE portfolio on that portfolio. So
18 just the reduction in risk and, you know, cost
19 of hedging, the currency exposures in that
20 portfolio. And we notice that it reduces risk
21 by about 98 basis points and would increase
22 return by about 80 basis points. We do
23 exactly the same analysis, except now we do
24 employ the MSCI risk system and say wait a
25 second, which currencies do we expect to be
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2 negatively correlated. And it turns out the
3 only one of EAFE currency that it expects to
4 be negatively correlated is the yen. So if we
5 decide not to hedge the yen, this is looking
6 backwards with perfect knowledge what the
7 negative correlation of the yen was to the
8 portfolio, we see we would have reduced risk
9 by 165 basis points and increased the return
10 of the EAFE, your EAFE portfolio, about 137
11 basis points.

12 MR. HADDAD: Could you walk through the
13 methodology that you used to show the
14 potential increase in return?

15 MR. DRAYCOTT: Yes, that's a good point.
16 I did want to get to that.

17 So the whole thesis here is that by
18 hedging, you could create a more efficient
19 portfolio. Again, by "more efficient" we are
20 saying same level of risk, can you generate
21 more return by hedging FX? So that's the
22 question we are posing. And so the theory
23 here is well, okay, if we reduce risk by
24 hedging, we should redeploy that risk appetite
25 into an asset class that is expected to

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2 generate a positive return rather than just,
3 you know, having exposure to FX which is
4 expected to generate zero return.
5 So in order to do the analysis, we
6 didn't want to choose the risky asset class
7 that would be expected to generate the
8 positive return. You know, we could come up
9 with any result we wanted if we guessed at
10 what the return was going to be. So what we
11 said was we said rather than do that, what's
12 the most sort of objective way of dialing risk
13 back up. So if we are reducing volatility, we
14 want to look at this portfolio but increase
15 the risk back up to where it was before we
16 hedged. So the simplest mechanism for doing
17 that is -- I am not suggesting we use
18 leverage. This is just a way to perform the
19 analysis. We just looked at leveraging the
20 portfolio so that given the same asset
21 allocation, we increase the risk back up to
22 the level of risk that was in place before
23 hedging.

24 MR. ADLER: Just to be clear: I don't
25 even think we are permitted to do that, just

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2 to be clear.
3 MR. DRAYCOTT: Well, we could get in an
4 argument about that, what's sec lending?
5 MR. HADDAD: Don't go there.
6 MR. DRAYCOTT: Never mind. So -- but we
7 are not suggesting using leverage. This is
8 just a mechanism so that it relieves us in
9 saying to you if you invest in this asset
10 class --
11 MR. ADLER: Let me ask you a question:
12 To get to the same goal, couldn't you simply
13 increase your exposure to the equities that
14 you are hedging the currency risk in order to
15 get that same result?
16 MR. DRAYCOTT: Absolutely. The only
17 reason we chose to use this mechanism dialing
18 up the risk is we didn't want to make the
19 subjective argument that all of the new risk
20 appetite would be used to invest in EAFE
21 equity. We just want to say suppose you just
22 dial up the whole thing.
23 MR. ADLER: Across the whole portfolio.
24 MR. DRAYCOTT: We just thought that was
25 the most objective way to do it.

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2 MR. HADDAD: And very simply stated: If
3 you reduce risk, that's a good thing in and of
4 itself. But if you redeploy it into something
5 else in your portfolio, then you get extra
6 return. And that's the benefit to your
7 portfolio of hedging foreign currency
8 exposure.

9 MR. KAZANSKY: You just have to redeploy
10 it in the right place and not deploy it in the
11 wrong place.

12 MR. DRAYCOTT: That's exactly the point.
13 We didn't want to say we know how you should
14 replot it.

15 MR. ADLER: You didn't want to say it.
16 You know it?

17 MR. DRAYCOTT: Oh, yes, it's all piled
18 in. I didn't want to make any pronouncements
19 where the risk is going to go.

20 Going back to basically answering Dave's
21 initial question: Okay, this is positive for
22 the TRS EAFE portfolio, but what about the
23 whole ball of wax? So we are going to dial up
24 in terms of granularity here. So on the next
25 page again this is just hedging the same

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2 exposure, that the TRS FX exposure embedded in
3 TRS EAFE equity portfolio, but now we look at
4 the reduction of risk on the entire public
5 equity portfolio. And here we see 26 basis
6 point reduction in risk corresponds 20 percent
7 increase in return; that's if you hedge
8 everything. If you exclude the yen, again
9 look backwards the reduction in risk is 38
10 basis points and the increase in return is 29
11 basis points. So hedging the same thing, but
12 looking at the impact on a larger, bigger
13 denominator.

14 MR. HADDAD: If you think why that
15 intuitively makes sense, your EAFE portfolio
16 is 12 percent of portfolio, then add in U.S.
17 and add in EM, and now it's 50 percent in
18 total. So now we are measuring the reduction
19 in vol over 50 percent of your portfolio.

20 MR. ADLER: The potential return
21 increase, that is across the equity portfolio
22 the 50 percent or across the whole 100 percent
23 of the portfolio?

24 MR. DRAYCOTT: This slide, it's now just
25 the equity portfolio. But what we are doing,

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2 John, is going from increase in return just
3 TRS EAFE, TRS public equity, TRS all public

4 markets, TRS total plan. That would be the
5 last of these four slides. We will pick up
6 the pace now.

7 MR. ADLER: I did hear it once before
8 but guess what, I don't remember it all.

9 MR. DRAYCOTT: So with that the next
10 slide, we are up to 14. The next slide is
11 looking at the impact of hedging just the EAFE
12 portfolio on the entire public market
13 portfolio. And here you could see the
14 reduction in risk of hedging everything is 18
15 basis points, increase in return of about 19
16 basis point. And again if you exclude yen,
17 look backwards it improves the whole dynamic
18 fairly significantly. The risk reduction is
19 23 basis point and the return is 24 basis
20 points.

21 And finally we look -- oh, so the news
22 here is this is kind of interesting. We have
23 now actually modelled in the BarraOne risk
24 system quite a few of your alternative assets.
25 So using Burgiss data now using the private
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2 equity portion of the portfolio and the
3 private real estate portion of the portfolio,
4 it's not 100 percent coverage yet so we have
5 kind of grossed up what we have. The
6 information we have on say 60 percent of the
7 private equity portfolio and assumed the bit
8 we don't have coverage of is equivalent, if
9 that makes sense. So this is an attempt to
10 say including analysis of private equity and
11 private real estate, what would be the impact
12 of hedging the TRS EAFE equity portfolio? So
13 looking at the total plan, including a pretty
14 educated guess on the risk of private equity
15 and private real estate, what's the impact?

16 This is -- I just want to make one
17 important point. This is not looking at
18 hedging the FX exposure of your private asset
19 classes; it's just still looking at hedging
20 the TRS EAFE FX exposure. And whether or not
21 it makes sense to hedge any portion of the
22 private assets is kind of a separate
23 discussion. As Mike pointed out earlier, it's
24 such a small portion of your portfolio. I
25 mean, it matters because the portfolio is so
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2 huge, but the lion's share of it is in the
3 public equity portfolio.

4 So with that, just to finish it, risk
5 reduction of the total plan, about 16 basis

6 points, increase in return coincidentally also
7 about 16 basis points. Looking backwards not
8 hedging yen, risk reduction would be 20 basis
9 points and the increase in return would be
10 about 21 basis points.

11 MR. ADLER: Can I just ask a math
12 question here?

13 MR. DRAYCOTT: Yes, please.

14 MR. ADLER: So when you just start with
15 the X -- the EAFE, you start with -- if you
16 take the EAFE equities hedge except for Japan,
17 the risk reduction is 1.65 and the potential
18 return is 1.37?

19 MS. VICKERS: Slide 12, John.

20 MR. ADLER: Slide 12, thank you.

21 And then if you go on and you add, the
22 risk reduction numbers get smaller because the
23 denominators get bigger. But why does the
24 potential return get -- a higher and higher
25 portion of the risk reduction becomes

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2 potential return until it, in fact the
3 potential return, exceeds the risk reduction
4 when we look at the total plan? I don't
5 understand the math.

6 MR. RADEV: So that comes to -- comes to
7 the calculation of the potential return
8 increase from dialing back the risk. What it
9 essentially assumes is that you are really
10 blowing your risk appetite in the entire
11 portfolio that you are considering. So in the
12 developed markets case, in the EAFE case, when
13 you dial it up you invest just in developed
14 market equities. In the public markets case
15 you invest just all the public markets. In
16 the total plan you have the entire corpus to
17 invest. So essentially all those additional
18 asset classes have a better Sharpe ratio,
19 according to Rocaton's return assumptions and
20 the BarraOne risk assumptions. So, well, you
21 do the better Sharpe ratio, you have a wider
22 range.

23 MR. ADLER: The unit return per risk is
24 going to be better. Thanks for the
25 explanation.

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2 MR. DRAYCOTT: Good idea to put him next
3 to me.

4 So on the last couple of pages, we want
5 to talk a little bit about the mechanics of
6 hedging and some of the considerations that
7 need to be taken into account in kind of

8 constructing or implementing a hedging
9 program. So on I am on 16 and in this slide I
10 want to get one really important thing across.
11 Some of the arguments over hedging we have
12 gone over may seem relatively complex. The
13 mechanics of implementing a program are
14 relatively straightforward. It just consists
15 of -- technique was just rolling FX forward.
16 So if you invest in a foreign currency, you
17 just sell that currency forward. One or three
18 months very liquid FX and the currencies are
19 considered very liquid excess forwards and
20 there too before the contract expires, you
21 settle it. So you either made money or you
22 lost money. Your portfolio has changed in
23 value, so that's kind of where the value is
24 going. And once you unwind that forward, i.e.
25 you settle it, you simultaneously replace it.

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2 So you just always have a one or three-month
3 FX forward in place equal to some fraction of
4 the NAV in that currency that you are
5 attempting to hedge, so that's a very kind of
6 mechanical process. It's something any big
7 bank or broker/dealer does if they have
8 exposures to things other than their own
9 currency.

10 So and we can -- okay, so assuming that
11 we have the right oversight of the whole
12 program, we shift to an agent NAV of each
13 currency we want to have hedged and the hedge
14 ratio. And by that I mean both where do we
15 want to end up in terms of how much of that
16 currency exposure do we hedge and we probably
17 also think we want to implement it over time.
18 So kind of two aspects of what we are going to
19 call the target hedge ratio. Where ultimately
20 do we want to be and given we don't want to
21 hedge 100 percent tomorrow because it could
22 move, we haven't hedged in forever, so
23 deciding to do it, you know, I think it's like
24 public equity. You want to kind of average
25 in, so you want to kind of move into it over

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2 an extended period of time.
3 So it's fairly a mechanical process to
4 hedge let's say passively and we will spend a
5 little more time talking about what
6 "passively" means. And we think we could use,
7 you know, the current infrastructure to come
8 up with what the desirable hedge ratios are.
9 Obviously there is discussion, which would

10 absolutely welcoming, Rocaton is going to be
11 involved and we imagine they would have to be.
12 We welcome them. So we need to shift to an
13 agent the amount of the exposure NAVs, so
14 obviously needs to be adjusted based on any
15 time additional monies is invested in a
16 currency or is removed. So we need to put in
17 place a program where we shift the NAV. We
18 ought to make shifting NAVs to an agent every
19 night.

20 Once the NAVs change by some threshold,
21 you know, the amount of forwards in place will
22 either increase or decrease in line with the
23 exposure. Exposure could change based on,
24 again, us increasing the exposure in that
25 currency or decreasing it or just the market

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2 value of the investment change.

3 MR. KAZANSKY: In the potential return
4 numbers that you have put throughout this dec,
5 have you factored in the cost already so this
6 is the expectation after we have paid whatever
7 fees we are going to pay to whatever agent is
8 going to do the hedging for us?

9 MR. DRAYCOTT: Yes.

10 In the optimization that we set up in
11 the BarraOne platform we factored in, Nick and
12 I got on Bloomberg and looked at what the bid
13 offer was on the FX forwards in each currency.
14 And it's essentially a component of the
15 analysis, but it also included -- let me step
16 back and say one more thing. You already have
17 an agent that executes spot FX transactions on
18 your behalf. So Russell, every time an
19 additional investment is made in Europe, money
20 comes, you know, in dollars. It's exchanged
21 for the euro, the currency in which the
22 investment is being made by Russell. So there
23 is already is an agent. We could look at the
24 contract and decide to use that agent to do
25 the forwards. Sorry, so to answer your

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2 question, yes, we got an estimate from Russell
3 as to what their cost acting on our behalf in
4 this capacity would be and that is also
5 factored in.

6 That being said, we need to spend more
7 time with Rocaton looking at the bid offers we
8 have assumed. We got on Bloomberg and looked
9 at a couple of different times. We actually
10 now started asking Russell their view as to
11 what the expected bid offers are. This is a

12 side note. Interestingly, like they thought
13 the cost -- big forward in Korean 1 for
14 instance was much, much lower. We never
15 assumed you would hedge Korean 1. Russell
16 actually suggested the bid offer was so low,
17 given the volatility you might want to. So
18 that's another issue we need to discuss. Not
19 ready to make any recommendation on that.

20 Okay, so fairly mechanical to implement.
21 Important decisions prior to implementation
22 once there is an agreement, if there is, as to
23 what to hedge. Actually hedging is I don't
24 feel that complicated. So, again, the final
25 page is just what are the issues that there

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2 needs to be more consideration given to to
3 come up with a recommendation which of the
4 currencies should be hedged, what's the timing
5 of putting a hedge in place, what is the
6 implication in terms of liquidity. I
7 mentioned if a contract moves against you, you
8 have to find cash to settle it. What's the
9 impact of that liquidity on the fund? I think
10 it's less of a concern if we are talking about
11 public markets. If we want to raise money,
12 just sell some of the things that's being
13 hedged. In the alternative, obviously there
14 is less liquidity in the thing we are hedging,
15 so there is probably very strong argument that
16 there should be different analysis as to
17 whether or not there should be any hedging of
18 private market exposures.

19 The other thing that would be part of a
20 recommendation we come to you with is the
21 rebalancing range. If we establish some
22 target where do we want to be and at what
23 point in time, how long do we want to take to
24 get there? We probably don't want to change
25 the hedges for small movement in the NAV we

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2 are hedging, so like all the other aspects of
3 rebalancing we probably have to specify the
4 rebalancing range and get your reapproval.

5 The remaining issues I left in there are
6 should we look at hedging privates, the
7 second-to-last thing, consideration, basket
8 clause utilization. We have talked to OGC.
9 Thankfully come back with the hoped-for
10 conclusion which is that the only utilization
11 of the basket clause that would be
12 consequence, it's just the market value at any
13 point in time of the forward; not the motion,

14 just the market value. So the bottom line is
15 that a hedging would not use up much of your
16 basket clause capacity.

17 And then finally the thing I mentioned
18 before, you know, rather than involving BAM in
19 any execution of the hedging, you know,
20 preliminary discussions, two entities that
21 could perform the function that would be
22 pretty straightforward.

23 And with that, if there are any
24 questions --

25 MR. ADLER: Any questions? Sorry, I got

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2 a couple.

3 I just want to be clear to follow up on
4 the point Dave made: When you say executions
5 with an outside manager, you say we currently
6 utilize an outside manager to do not the
7 hedging but the exchange, would the hedging
8 require a different outside manager than the
9 exchange manager and, if so, is that cost
10 built in?

11 MR. DRAYCOTT: So we don't make a
12 category statement that we should use Russell
13 at this point, but we actually think they are
14 -- our initial conversations, you know,
15 suggest they are absolutely capable of doing
16 this. And we did get an estimate of what they
17 would charge for doing it and that estimate,
18 as I mentioned to Dave, is built in.

19 MR. ADLER: So we might actually end up
20 doing an RFP or a search and then it could end
21 up being Russell could be a separate manager,
22 and is it potential that you have one manager
23 that does the foreign exchange and a different
24 manager that does the hedging or that wouldn't
25 make sense?

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2 MR. DRAYCOTT: We just think it's an
3 execution of a foreign exchange contract. We
4 -- I am not trying to opine on what the ACCO
5 is going to say, but our -- my personal
6 perspective would be it would make sense to
7 use the same entity. They are widely thought
8 to be very competent. They are one people who
9 do implement passive hedging programs who
10 often use Russell, so we thought they would be
11 a perfectly acceptable choice. We have not
12 had conversations with ACCO. We have with
13 OGC. It turns out the initial review of the
14 contract suggests we could actually just ask
15 them to do this without going through a

16 lengthy procurement process.
17 MR. ADLER: Second question is regarding
18 private asset classes. So we have a fund
19 coming in front of the board at the next CIM
20 that is a foreign, a private equity fund
21 investing in private markets that gives you an
22 option of dollar denominated or euro
23 denominated and the system's recommendation is
24 to do the dollar denominated. My question is:
25 If we were doing hedging, would it make more

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2 sense to invest in a fund like that in a
3 local-denominated fund rather than the
4 dollar-denominated fund? Because I don't
5 understand -- actually if we do the dollar
6 denominated, then presumably the capital calls
7 come in dollars?

8 MR. DONE: Yes, they do and the return
9 in dollars.

10 MR. ADLER: But does the exchanging
11 itself and may the fund itself, I don't know,
12 do hedging? So I am just wondering whether in
13 that sense it makes more sense to let them do
14 it or for us to do it.

15 MR. DRAYCOTT: So you definitely touched
16 on one of the complexities of hedging private.
17 Some managers have a sleeve, some don't. We
18 haven't done -- again it's a small fraction of
19 the exposure, so this is just my intuition or
20 preliminary thoughts and my colleagues can
21 absolutely chime in: Probably just let the
22 manager do it would be my knee-jerk reaction.

23 MR. HADDAD: I would concur. And it
24 gets down to the liquidity management so when
25 we settle a hedge, you know, some months we

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2 are going to make money, some months we are
3 going to lose money. On the months we lose
4 money, we have to give them capital. So if
5 BAM, Russell, whatever that entity is doing
6 it, we got to come up with money and that
7 money should be funded in a best practices out
8 of that asset class. And, you know, just to
9 sell private equity, there is a big massive
10 big offer spread and that's something we don't
11 want to be in the business of doing.

12 MR. ADLER: And the thing with cash
13 flows in private equity, they are lumpy. You
14 are both giving it up and getting it back in
15 big lumps and they are not predictable.

16 MR. DRAYCOTT: And it changes quarterly.

17 MR. HADDAD: So we would rather leave

18 that to the managers if they offer.
19 MR. DRAYCOTT: The caveat there, though,
20 I think this is relatively important: So
21 private real estate is becoming increasingly
22 defensive, right, in terms of the new
23 investments that they are recommending and
24 they are starting to -- they are increasing --
25 their suggestion is to increase the investment
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2 in private real estate funds that invest in
3 debt secured by real estate. I think when we
4 get to analyzing whether it makes sense to
5 hedge privates, I would think that the one
6 thing -- backing way, way up, John, where
7 there is an absolute consensus among -- I
8 believe the consensus among foreign investors
9 is one should hedge foreign currency fixed
10 income.

11 MR. ADLER: Right. Why take currency
12 risk on that foreign investment?

13 MR. DRAYCOTT: If you remember, one of
14 the reasons that got us looking at this was
15 Joe Alejandro raising his hand at a CIM and
16 saying what about a sterling. He was
17 specifically referring to a
18 sterling-denominated private real estate
19 investment that we were asking the trustees to
20 consider and said what about hedging the FX
21 risk. And to some extent, that's one of the
22 things that got us started on this whole
23 exercise and we agree with him, actually.
24 That is something we probably should -- well,
25 we haven't privatized hedging privates because
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2 it's such a small percentage of the portfolio.
3 But if we -- when we get to looking at it,
4 that will be top of the list of things that I
5 think would make sense. If the manager isn't
6 doing it, we should.

7 MR. ADLER: But it's interesting because
8 you talk about EAFE equities, do you guys off
9 the top of your head, you may not, know how
10 much foreign denominated -- and it's all
11 developed, we don't have emerging market debt,
12 but how much foreign-denominated public fixed
13 income do we have?

14 MR. DRAYCOTT: Zero. Sorry, your
15 question was public markets?

16 MR. ADLER: Public fixed income foreign
17 non-dollar denominated.

18 MR. DRAYCOTT: Very close to zero.

19 MR. ADLER: That's not true.

20 MR. HADDAD: There is a tiny bit in the
21 TIPS.

22 MR. ADLER: You are saying we don't have
23 any what we used to call core plus 5?

24 MR. FULVIO: There might be some modest
25 non-U.S. exposure in the OFI program, but it's

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2 small.

3 MR. NANKOF: There is what I think might
4 be I think very, very -- in fact, in U.S.
5 fixed income index there is a lot of non-U.S.
6 issuers that issue in dollars though, so you
7 might see issuers.

8 MR. ADLER: But we are not buying any
9 sovereign debts?

10 MR. HADDAD: We are not buying any of
11 that stuff.

12 MR. NANKOF: But there might be non-U.S.
13 issuers.

14 MR. DRAYCOTT: John, on page 3 it's
15 actually 3 basis points.

16 MR. ADLER: 3 basis points, wow.

17 MR. HADDAD: And that's UK TIPS.

18 MR. ADLER: Oh, I see. It's all in
19 dollars, I got it. All right.

20 MR. HADDAD: So I thought it was UK
21 TIPS.

22 MR. DRAYCOTT: We actually used to have
23 some more.

24 MR. RADEV: I believe a reference was
25 made to there are a lot of non-U.S. issuers

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2 issuing in U.S. dollars, but I think these
3 assets are considered basket assets.

4 MR. DRAYCOTT: So we sold them.

5 MR. ADLER: The global fixed income.

6 MR. RADEV: Well, they are.

7 MR. ADLER: Oh, it's part of the 10
8 percent international.

9 MR. DRAYCOTT: They are counted against
10 the basket.

11 MR. RADEV: If they are not U.S. equity
12 if -- no matter. If they are issued in
13 dollars, they are non-U.S.

14 MR. ADLER: I got it.

15 MR. DRAYCOTT: When we were looking at
16 the basket clause and assumption of it and
17 doing the net calculation more carefully, you
18 suggest the managers sell the dollar
19 denominated.

20 MR. ADLER: I am surprised private real
21 estate does not, but okay.

22 MR. DRAYCOTT: It's going to ramp up.
23 Their target is 15 percent.
24 MR. HADDAD: In debt, but not
25 necessarily nontarget.

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2 MR. DONE: They are 15 percent target so
3 I don't think the recommendation is a
4 meaningful ramp-up, but they will be looking
5 at a private debt opportunity foreign
6 denominated.

7 MR. DRAYCOTT: Again, I wasn't
8 suggesting we do something about that right
9 away. But if we are going to look at
10 privates, that's where we would look first.

11 MR. DONE: Agreed.

12 MR. ADLER: Okay. Other questions or
13 comments for Miles or BAM on the currency?

14 MR. DRAYCOTT: So I think what's next is
15 we come back to you in conjunction with
16 Rocaton, continue looking at this with Rocaton
17 and come back with more fulsome and specific
18 recommendation. That's the plan.

19 MS. VICKERS: So do we have consensus
20 that BAM should take a deeper dive into this
21 topic with Rocaton?

22 MR. KAZANSKY: Absolutely.

23 MR. ADLER: Sure.

24 And do you have a sense of time, I know
25 I asked this in the summer, ever like when you

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2 think you might come back with such a fulsome
3 recommendation? That's one of Miles' favorite
4 words.

5 MS. VICKERS: Not at the September CIM,
6 but perhaps the October/November.

7 MR. HADDAD: We have to coordinate with
8 each consultant and get to the same place, but
9 I think you could tell from this that we have
10 an opinion.

11 MR. NANKOF: And coordinating with
12 multiple consultants.

13 MR. ADLER: That's BAM's whole job.

14 MR. DRAYCOTT: I have monopolized the
15 conversation, if you guys --

16 MR. NANKOF: No, I think you did a fine
17 job. If we had any thoughts, certainly we
18 could jump in and discuss with you. It's
19 thoughtful, we have some clients we are doing
20 some hedging so it's certainly more popular if
21 you go back ten-plus years ago to do hedging,
22 but it's not -- it's not without merit to
23 consider it. So -- and you have looked at it

24 comprehensively in the right way, the way we
25 want to which is -- and you have not --

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2 importantly even though historically there is
3 a return benefit to hedging, that's not part
4 of the justification for hedging. As we
5 understand the arguments have been made, the
6 position you are taking which is it's risk
7 reduction and redeploying risk, which we would
8 support as well as the approach. So we are
9 happy to work with you to bring this forward
10 in the next couple of months.

11 MR. DRAYCOTT: You are looking
12 quizzical.

13 MR. BROWN: Let me bring it down a notch
14 to my level. I mean, you sound like -- I
15 mean, at the beginning I thought you weren't
16 trying to sell anything. But I realize that
17 hey -- and you are doing this across all five
18 systems, I imagine?

19 MR. DRAYCOTT: The five systems, yes.

20 MR. BROWN: So let's bring it down a
21 notch and say I have been travelling to Europe
22 for the last ten years, to England where they
23 have the pound sterling, Europe. And every
24 year sometimes the euro is high, sometimes the
25 dollar is low, sometimes the other way around.

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2 And what happens if I plan to continue going
3 to Europe for the next ten year, twenty-year
4 period, so some summers are great for me, some
5 summers are not so great for me and they kind
6 of equal out. But there is this travel
7 company that says hey, you can pay a fee
8 upfront to protect the value of your dollar
9 when the time -- you have to pay more in pound
10 sterling.

11 So convince me, Miles, that I should pay
12 this travel company a fee to just protect my
13 dollar value when over the last ten years it's
14 been up and down and up and down and up and
15 down and just seems to equal out with value to
16 dollar and value of the fund in simple terms.

17 MR. DRAYCOTT: But that's interesting.
18 There is a couple of different things I think
19 are embedded in your question or could be
20 thought about in answering your question.

21 And one of them is I am moving slightly
22 away from your analogy to pay essentially an
23 option fee to some travel agent, but should a
24 long-term investor like you, like this system,
25 consider hedging. So -- well, do we believe

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2 the currency is mean inverting or not? I
3 personally don't think every currency should
4 be mean inverted. That's an argument for
5 hedging.

6 But the other thing is, are we really a
7 long-term investor? And what I mean by that,
8 obviously we have money which is going to be
9 invested for a long period of time before we
10 need to sell assets in order to pay
11 beneficiaries, but -- we often term ourselves
12 as being a long-term investor, but we
13 definitely care about short-term investment
14 returns. So we are kind of like a deer. We
15 kind of have two obsessions; we care about
16 long-term return, but we also care about
17 short-term returns. We talk about if we -- if
18 we don't do well, it receives press. If we
19 don't do well, it's seen as negative even if
20 there is a twenty-year horizon.

21 MR. BROWN: You are saying it would be
22 bad press?

23 MR. DRAYCOTT: Well, I am not just
24 saying it's press. You are making an
25 assumption about the volatility of the asset.

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2 I mean, there is short-term volatility that we
3 do seem to care about. I'm sorry, saying it
4 gets into the press makes that seem like a
5 pejorative. It's not just optics. We do care
6 about.

7 MR. BROWN: Why now? Because of the
8 Brexit vote or why now?

9 MR. DRAYCOTT: Sorry?

10 MR. BROWN: Why at this time are we
11 considering?

12 MR. DRAYCOTT: So there -- I think there
13 are a lot of academic arguments that we
14 reviewed that suggest broadly hedging makes
15 sense. The another thing I would offer is a
16 number of systems have hedged, have started to
17 implement a hedging program, and regretted it
18 and pulled a plug at exactly the worst time.
19 And CalPERS is an example.

20 MR. BROWN: CalSTRS?

21 MR. DRAYCOTT: CalPERS.

22 MR. BROWN: What about CalSTRS?

23 MR. DRAYCOTT: I am not aware where they
24 stand on this. CalPERS put something in
25 place, it went against them, they had losses

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2 and had to settle the hedges. The size of the
3 payment they had to make to settle was large
4 enough that they looked at the whole thing
5 again and pulled the plug at exactly the wrong
6 time. And now they are looking at putting an
7 FX hedging program in place again.

8 So the thing that I would suggest is if
9 you should decide to do this, implement it
10 over a fairly extended period of time. I
11 personally would be -- because you are right,
12 I am kind of selling something. I would be
13 horrified if BAM in conjunction with the
14 consultants convinced you to do something and
15 then we piled into it next week and the FX
16 rate moved against us dramatically and we had
17 huge, you know, costs to settle the hedges.
18 So I think it should be -- in answer to your
19 why now question, I don't think it should be
20 now. I think it should be over the next three
21 to five years.

22 MR. BROWN: But ultimately your goal is
23 to have 100 percent of the 19?

24 MR. DRAYCOTT: Even that is an
25 assumption that we want to make sure we are on

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2 the same page as Rocaton.

3 MR. BROWN: You said the term several
4 times "FX forward" and I didn't understand
5 that.

6 MR. DRAYCOTT: But, sorry, let me go
7 back to an important thing you raised in your
8 last remark "100 percent." A very interesting
9 thing about the analysis -- I'm sorry, I am
10 not going at the highest level.

11 MR. BROWN: That's good.

12 MR. DRAYCOTT: An interesting
13 observation is that you get more than half of
14 the benefit from hedging only half of the
15 exposure. It's not a linear relationship so
16 if the determination was to do 50 percent to
17 get started, you know, I personally think that
18 would be fine and particularly enamored if
19 that was the conclusion because you are
20 getting more than 50 percent of the benefit by
21 hedging 50 percent of the exposure.

22 MR. BROWN: Did I hear you say you would
23 have to sell assets in order to hedge?

24 MR. DRAYCOTT: No. What the remark I
25 was making going back, so let's start with FX

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2 forward. If we buy a hundred euro of some --
3 of Daimler say, what would the hedge be? We

4 would sell a hundred euro forward for dollars.
5 So your system makes the investment, buys a
6 Mercedes stock and pays, so now it has an
7 asset which is denominated in euro. So --

8 MR. BROWN: As opposed to what we have
9 now which is in dollars?

10 MR. DRAYCOTT: Let's say this is the
11 first nondollar investment you made and in
12 Daimler and was a hundred dollars or a hundred
13 euro, so you would now have an asset that's
14 worth a hundred euro. How would we hedge
15 that? We would sell a hundred euro forward.
16 And then that's a good hedge until the
17 contract matures and the instant that we
18 settle the contract.

19 So let's say it's a three-month forward
20 and three months' time that forward -- sorry,
21 when you sell a currency forward, you sell it
22 at the forward, it has on day 1 no value. You
23 agree with the bank what the forward FX rate
24 is and you sell the currency forward at that
25 rate. And so tomorrow assuming the FX rate

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2 doesn't change, that contract has no value.
3 But over three months it's either going to
4 have a value, negative value, or positive
5 value and the bank that you transact with is
6 going to ask you to settle up, give us the
7 money, or they are going to give you the money
8 whichever way it goes.

9 MR. HADDAD: FX forward is just the
10 vocabulary in the FX market for doing a trade
11 of a particular hedge. I hate to say it, it's
12 a dirty word. It's a derivative.

13 MR. NANKOF: Maybe better more it's a
14 contract. It's a -- and the contract just
15 says if the euro depreciates in value versus
16 the dollar, you get paid that difference in
17 value for owning that contract because the
18 stock you own is less valuable in dollars.
19 You get made whole by the bank.

20 MR. BROWN: Because we have it in euros?

21 MR. NANKOF: Because you have the
22 forward contract which trades dollars in
23 euros.

24 I was going to come back to your
25 construct earlier, Tom, which I am not sure we

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2 completely got to which is: If you were
3 travelling in Europe every year and the risk
4 of the euro/dollar exchange rate is
5 significant enough for you as a consumer where

6 it's a concern where you have to budget more
7 dollars to go travel and that is onerous, you
8 know, it's a burden on you, if the cost of the
9 insurance that this travel insurance company
10 is offering is cheap enough -- you know,
11 that's the nature of insurance. That's all
12 this is if it's cheap enough, if it's pennies
13 on the dollar or less than pennies on the
14 dollar, you might say sure I am willing to do
15 it because this burden of the exchange rate is
16 something that really bothers me. So as you
17 lower the price -- and in the case of BAM
18 actually already evaluated it and we
19 completely agree with. The cost of insurance,
20 the cost of these contracts we are talking
21 about is very, very low, very, very, very low
22 relative to the dollars we are talking about
23 that you are investing in non-U.S. markets.
24 It's sufficiently low where the risk reduction
25 you get is potentially more beneficial than

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2 the cost you are paying. We are talking about
3 less than pennies on the dollar.

4 MR. BROWN: Where did I hear that you
5 lower the risk, it's spread out to some other
6 place?

7 MR. NANKOF: So if again come back to
8 your example of your travel, you might say
9 what I have to budget in my travel budget
10 because I don't know whether the euro is going
11 to be a \$1.60 or a \$1.20, I have to put more
12 money aside. So if I buy the insurance, I
13 could go buy more coffee or I could buy a
14 bottle of wine or whatever it is you want to
15 buy --

16 MR. ADLER: -- to maximize your reward
17 for the risk you are taking. That's a really
18 good analogy.

19 MR. NANKOF: Or you could buy clothes.
20 So in this case we are talking about as an
21 investor, we are not spending money on
22 clothes, wine, coffee. We are spending money
23 on extra risk to try to get better returns.
24 It's actually exactly the same equation, so
25 it's a wonderful example you brought up. And

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2 it's a question of whether insurance buys you
3 enough risk reduction. If you are a
4 homeowner, you insure yourself against going
5 to the hospital or medical bills, all these
6 insurance examples are just -- it's a
7 risk/reward equation that we are all playing

8 out in our heads every day; do we want to buy
9 the insurance. And this is now for an
10 constitutional investor the same kind of
11 analysis that we are doing. And the cost of
12 insurance in this case is very, very cheap so
13 it might be worthwhile buying. Is that
14 helpful?

15 MR. BROWN: Yes, really helpful.

16 MR. DRAYCOTT: Much better response than
17 mine.

18 MR. ADLER: Let me just raise one more
19 point, which I think you guys have raised with
20 me privately, which is that: If we do move
21 forward with the FX currency hedging program
22 it will likely change the capital markets
23 expectations and the correlations between our
24 international portfolio and the rest of our
25 portfolio, which may lead to a need to revisit

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2 our asset allocation because the expectations
3 and assumption that we used to do our asset
4 allocation two years ago may now not be -- may
5 not -- may not be reflected in the new
6 strategy. In other words, we may actually
7 want to do that in conjunction as we are
8 examining whether to do the currency hedging
9 and how to do it that that might lead to a
10 desire to revisit the asset allocation.

11 MR. NANKOF: In fact, we have discussed
12 with BAM this exact idea and it's a terrific
13 point. We in those discussions where we came
14 to was if we could make -- get to a place
15 where we agree on what the hedging strategy is
16 with non-U.S. equity or non-U.S. investments
17 in the portfolio, then that is what gets fed
18 into an updated asset allocation strategy and
19 that feeds into the overall strategy of the
20 fund. So it's a -- it does go hand in hand
21 with those assumptions and those decisions, so
22 it's something -- what we are less excited
23 about would be to let the model just drive the
24 decision, you know, put into the model non-U.S
25 hedge, non-U.S. unhedged and let it -- we

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2 would rather just prefer to just make a
3 decision on the hedging strategy and then have
4 that be the input into the asset allocation
5 update that we do, whether it's 2019 or
6 sometime around that.

7 MR. BROWN: So going forward, Miles, you
8 are going to get in touch with Rocaton and you
9 will come up with a recommendation to us?

10 MR. DRAYCOTT: Oh, absolutely. We
11 already started discussing with them.
12 MR. BROWN: What time frame, in a month
13 or two?
14 MS. VICKERS: This fall. And I think
15 the idea that we have been talking about is
16 once that recommendation is sort of digested
17 and acted upon by the various systems, then
18 sort of that decision might flow into --
19 naturally flow into doing an updated asset
20 allocation. And the timing of that in early
21 '19 would probably make sense from a BAM
22 perspective. Assuming that a new CIO might
23 start around then, that person would want to
24 be part of this process.
25 MR. BROWN: This is all or none;

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2 individual systems choose this or it has to be
3 across the board?
4 MR. DRAYCOTT: Each system has to.
5 MR. NANKOF: I think any -- you know
6 your system, of course, but we would think
7 given -- any one of the systems individually
8 is large enough to do this on their own.
9 That's our sense, but --
10 MR. DRAYCOTT: We would hope that all --
11 MR. BROWN: I guess the fees would be
12 that much less.
13 MR. NANKOF: They are so low to begin
14 with.
15 MR. BROWN: Okay, get back to us.
16 MS. VICKERS: This conversation is
17 obviously for the QPP, but I am sure that -- I
18 don't know if the TDA portion would have a
19 similar process.
20 MR. FULVIO: Yes. There is certainly
21 other considerations there, the assets being
22 participant assets and talk about that.
23 MR. DRAYCOTT: Just as Rocaton
24 mentioned: The upshot of this if we are going
25 to do another asset allocation, their

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2 projections as to volatility and return are
3 going to be part of it and we are going to
4 really understand what they think of the whole
5 strategy when we ask them for, you know,
6 different vol assumptions for EAFE equity.
7 MR. BROWN: Go for it.
8 MR. NANKOF: We have assumptions already
9 for U.S. non-hedged as well as U.S. hedged,
10 which means the beautiful thing about that you
11 could come up with any percentage hedge you

12 want because you just mention the two and any
13 proportions you like. So we stand ready to
14 jump in on the asset allocation and also work
15 our way through it.

16 MR. HADDAD: The elegance of combining
17 it with strategic allocation is to redeploy
18 the risk, go through all those different
19 analyses, and redeploy the risk where the best
20 risk/reward is according to the capital market
21 assumptions.

22 MR. BROWN: Good.

23 MR. ADLER: Everybody good?

24 Great, thanks very much for the very
25 thoughtful and thought provoking.

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2 Okay, are we ready to continue? So the
3 next item on the agenda is emerging markets
4 country screens and guideline update. So,
5 Mike, if you want to take us.

6 MR. FULVIO: As a reminder, this is a
7 project we have been working with the staff on
8 for about eight or nine months. This impacts
9 both the Pension and the Passport Funds. So
10 think of it more holistically and what we have
11 talked about is developing a review not only
12 of the current process, but developing a
13 process of how the board approaches investing
14 in emerging markets looking forward.

15 So in all these conversations you might
16 recall, particularly at the last meeting in
17 June, the board asked Rocaton and staff to go
18 back and develop an implementation plan; what
19 would be necessary to move forward with
20 changing the process so that TRS no longer
21 excludes Russia, China, and Pakistan but
22 rather allows managers to make the investment
23 decisions there, but in doing so takes into
24 consideration the beliefs of the board and the
25 priorities of the board for making those

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2 decisions so as to avoid any conflicts on
3 those points. And those points are all
4 something that we will talk a little bit about
5 when we review the draft statement of
6 investment beliefs as the next agenda item,
7 but I will start by noting that was -- in our
8 minds, the number one step in moving forward
9 here was creating such a statement where the
10 board outlines those views, those priorities,
11 discusses not only the board's investment
12 approach but also looking at various risks,
13 some that may go beyond investment risks but

14 certainly could impact investment risks. And
15 so that's a very nebulous way of saying you
16 need -- that the board, you need to come up
17 with a concise statement that in some way
18 guides managers to making investment decisions
19 that, as a board, you are comfortable with.

20 MS. VICKERS: Can I interrupt for a
21 second? Because I want to put it sort of
22 where we are. We are talking just about
23 public market equities and the prohibition
24 right now is Russia, China, Pakistan. I don't
25 recall how we decided just to sort of look at

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2 that side of things and not also the private
3 side, which has a different set of rules which
4 I believe still is governed by the World Bank
5 list of investable countries.

6 MR. ADLER: World Bank or OCD?

7 MS. BUDZIK: It's the World Bank.

8 MS. VICKERS: So just before we move on,
9 could, you know, this discussion be taken too
10 as a consideration perhaps for private markets
11 as well or is there some reason that this
12 would just work in the public markets?

13 MR. FULVIO: So I think it could.
14 Particularly to the extent which we look at
15 the statement of investment beliefs, so that
16 was developed while taking into account how
17 the board's priorities would get communicated
18 across both public and private. To the extent
19 there are changes to how you implement the
20 process on the private side, we would look to
21 BAM to help guide that and potentially the
22 other consultants.

23 MS. VICKERS: So this is designed for
24 public, but it may be workable after some
25 further consultation with private?

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2 MR. FULVIO: Yes.

3 MR. KAZANSKY: If my memory is working
4 today I believe we had that conversation
5 earlier, but we would basically build it out
6 for the public markets first and then see how
7 we could adapt it for private.

8 MS. VICKERS: Right, I just want to kind
9 of re --

10 MR. FULVIO: So today the discussion is
11 around this implementation plan that we have
12 outlined. And this on the slide does not
13 include every detail, but we think these are
14 the high-level objectives that we feel are
15 important to implement the process we have

16 been talking about over the last several
17 months. I mentioned the development of the
18 statement of investment beliefs. The second
19 point on this page states "Communicate with
20 all Passport and Pension Fund managers the
21 statement of beliefs and revising guidelines
22 where appropriate or where necessary." And I
23 think what's here on the page doesn't do
24 justice to particularly how much work that
25 maybe has embedded within it, so I wanted to

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2 speak to that.

3 And it says to communicate with
4 managers. I view that more of a collaborative
5 process that probably needs to be addressed
6 and so there is different ways I think we will
7 go about that. But in doing so with the
8 public market managers, it's not just sending
9 them a statement of investment beliefs in the
10 e-mail and say hey, we want you to think about
11 this when you are picking stocks. Because we
12 are coming from a place where there are
13 countries excluded in the current portfolio
14 and there were reasons for that in the onset
15 of this back in 2010, we want to make sure
16 that it's very clear what the board's beliefs
17 are to the managers and how the manager would
18 consider incorporating those beliefs into the
19 process, how they are constructing the
20 portfolio for Teachers.

21 So when I talk about or note on this
22 page "revising guidelines," it's not just
23 removing the prohibition to Russia, China, and
24 Pakistan; it's making reference to the
25 statement and I think having a conversation

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2 with the managers. The managers manage
3 broader portfolios for their other clients so
4 they know what stocks they are looking at for
5 their portfolios. We want to have a
6 conversation with them about where the
7 pinpoints might be, what about these beliefs
8 may -- in some way might conflict with the
9 names they might consider adding or consider
10 adding to their portfolio. I think that's a
11 consideration.

12 So that's a process that will take some
13 time. And I think the reason why we want to
14 be thoughtful about how quickly we do that and
15 when we do that is because, as you are aware,
16 there is an outstanding search for equity,
17 non-U.S. equity market managers with emerging

18 markets today in the pension. We are going to
19 talk more broadly about other considerations
20 for the Passport Funds there. And so we think
21 that the rollout of this and the guide changes
22 should perhaps be in coordination with BAM for
23 searches that are going on. We wouldn't today
24 suggest that you remove the restrictions, for
25 example, and then make changes to the

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2 portfolio. In fact, you know, there is
3 recommendations to change the managers in a
4 few months. So that's something we want to be
5 coordinated on and we want too as part of the
6 search process in thinking about what the
7 portfolios might look like, again as I said
8 before talking to the managers about what the
9 portfolios would look like, and understand how
10 this belief statement is going to be reflected
11 in their process.

12 So I will pause there and see if there
13 is any questions.

14 MR. ADLER: Questions for Mike?

15 Let me just say yes, I am comfortable
16 with what you just said. I was uncomfortable
17 with this notion of sort of doing all this
18 stuff at once in an -- you know, adopting
19 investment beliefs, revising guidelines,
20 hiring new managers, changing the composition
21 of the international portfolio in terms of,
22 you know, index versus active, and division
23 between emerging and developed markets. And
24 all this, it just seemed like what we are
25 moving at break-neck speed here and I was not

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2 ready to do that. So I think taking a more
3 measured deliberative approach makes a lot of
4 sense.

5 MR. FULVIO: I think if we look at this,
6 the next part of the process talks about how
7 we create an evaluation, periodic evaluation
8 process of the holdings. I think if we
9 implemented this and in twelve months went
10 through a process to review the portfolio and
11 found there were a lot of red flags and things
12 that the board wanted to engage and talk with
13 the managers of the portfolio companies on, I
14 don't think that would necessarily be
15 productive. We want to make sure there is no
16 surprises twelve months from now when we do a
17 review. We want the managers to understand
18 where the board is coming from and make sure
19 that they are managing the portfolios in that

20 manner from day 1.

21 MS. VICKERS: And the one thing that --
22 I don't know if this is going to make things
23 easier or more difficult -- I just thought of
24 is the BAM compliance monitoring system, you
25 know, has certain tags. We currently have

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2 Russia, China, Pakistan tagged and at the next
3 CIM for the first time, the clients unit as
4 promised is coming back with examples of any
5 breaches that occurred in the preceding
6 period. So I don't know how our compliance
7 unit is going to be able to monitor compliance
8 with a statement of beliefs.

9 MR. FULVIO: It becomes a more
10 subjective process and I think that's the
11 important component of, I will call it, the
12 annual review. We haven't found out
13 specifically if it's an annual review or
14 biannual review or more frequently, but there
15 is -- not only is it hard to monitor in terms
16 of what I specifically have here, but I think
17 what you would find as well is that the
18 scoring you get for these companies on
19 different call it ESG-related factors, even
20 that itself could be somewhat subjective. So
21 this does create the need for more
22 conversations with managers, help us
23 understand, you know, why these companies are
24 showing up as having additional risk from a
25 governance standpoint, help us understand if

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2 you are cognizant of those risks, why you feel
3 still feel there is an investment case, and
4 that you are comfortable taking that
5 additional risk. So I think there is a lot
6 that goes on there. It's not just a review,
7 but it's a review of figuring out how to
8 prioritize those conversations with managers
9 and then, if necessary, even portfolio
10 companies.

11 MS. VICKERS: I wonder if there are any
12 objective criteria that could be baked into
13 this subjective process at all. Just note or
14 if we say, -- you know, we have a different
15 conversation with the role of the monitoring
16 that BAM does, because there could be
17 instances where there is a significant breach
18 or a misunderstanding of the subjective ideas
19 that sits around for a year. Until we do an
20 annual review, if we don't have -- I don't
21 know how the system totally is designed, but I

22 know there are tags that are put in.
23 MR. FULVIO: I think it's something we
24 need to look a little bit more closely at and
25 figure out in some ongoing way how much of the

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2 onus is put on the process where there is an
3 active review and how much of the onus is put
4 on a manager to say hey, I am considering
5 investing with this company. If it might
6 flag, we should have a conversation about it
7 and figure out what's the process for sort of
8 elevating those conversations.

9 MS. VICKERS: I wonder if, and I don't
10 know if -- this just popped into my head: If
11 instead of a periodic review, if there are
12 vendors out there and we have spoken to some
13 of them that already have a process for
14 scoring and reviewing let's say companies,
15 whether that would be an extra layer of
16 monitoring that we want to employ on a regular
17 basis and they would be flagged. I don't know
18 if that could work. They could be flagging
19 companies that don't reach a certain score,
20 for example.

21 MR. KAZANSKY: So if I understand what
22 you are trying to say is that part of the
23 responsibility would be on the managers to
24 have their own internal processes to know
25 ahead of time this might be a problem, that

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2 might be a problem for Teachers or are you
3 talking about --

4 MS. VICKERS: No, I think I am talking
5 about something else.

6 What I was trying to say is that BAM has
7 spent a lot of time designing systems to
8 monitor compliance with the current
9 restrictions and the current guidelines that
10 are in place, especially for public markets.
11 And that system I believe, and I don't know if
12 Miles knows more, sort of has certain tags.
13 Russia may be one of them. If a manager by
14 mistake or just unwittingly bought assets or
15 bought a company or made an investment in
16 Russia, a few weeks later some kind of lag we
17 would know about it, it would raise a red flag
18 such that you would report it to Miles or Alex
19 or whoever and we would deal with it. In this
20 scenario we are not giving managers specific
21 objective points that they can or cannot
22 invest in. We are giving -- we are having
23 more of a subjective general conversation.

24 And I would think that compliance at BAM would
25 ask how can we monitor compliance with that,
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2 what's the data point? And I remember some of
3 the vendors that we have spoken about or
4 spoken to score individual companies. And
5 that's a proprietary kind of database or
6 function that they have. It's not something
7 that BAM does currently, or maybe we do.

8 MR. DRAYCOTT: We do.

9 MR. KAZANSKY: Does NYCERS do this
10 already to some degree?

11 MR. ADLER: That's vendor, not the
12 companies. They do the countries, but you got
13 the EG ratings from MSCI.

14 MR. DRAYCOTT: When we got approval from
15 the trustees to acquire MSCI analytics system
16 we actually came back and said a module you
17 want to buy, is all this ESG rating data? And
18 so to your point, there are certain practices
19 like child labor where they do give the scores
20 and they do come up with a total score. And
21 we would absolutely share that with Rocaton to
22 see if any of this is a value.

23 MS. VICKERS: So could that perhaps be
24 something that we bake into this, say you have
25 to have MSCI ESG score of 10 or above to the
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2 managers and that then we could monitor if
3 somebody buys or an 8 or 9?

4 MR. ADLER: So we actually had a whole
5 discussion about this last time. I actually
6 know this because I asked for the minutes for
7 the meeting coming into this meeting, and we
8 had a whole discussion about this very topic.

9 MS. VICKERS: I raised the exact same
10 point.

11 MR. KAZANSKY: You haven't wavered.

12 MR. ADLER: I mean, what's tricky about
13 it, I think, is to say to a manager okay, we
14 don't have this -- like right now it's very
15 simple. We say to the manager don't buy
16 companies that are in Russia, China, or
17 Pakistan. If you say to a manager don't buy a
18 company that MSCI or Sustainalytics rates
19 below X, first of all, the company ratings
20 change. Not even just annually, sometimes
21 more than annually.

22 Secondly, okay, so they take a big
23 position in Company Z that has a rating above
24 X and then six months later their rating
25 changes to below X and then, oops, you guys

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2 are now out of compliance, but you were in
3 compliance when you bought it and we have to
4 sell it. It's tricky.
5 MR. FULVIO: I don't think we want to go
6 down that path because I think the intent is
7 to let managers make the decision. Let
8 managers make the decision as to what the
9 risks are, what the return potential might be
10 for a specific investment opportunity. Let
11 them make decisions based on that and let's go
12 through a process to monitor what the
13 exposures are, what those scores might be.
14 Whether or not that happens in an active way
15 where we are filtering in realtime MSCI
16 scores, for example, or Sustainalytics scores,
17 if we are doing a periodic review to see where
18 the hot buttons are and then engaging with the
19 managers to understand what their mindset is,
20 why are they doing this, making them aware
21 what we are seeing rather than try to dictate
22 the portfolio characteristics and the scores
23 as part of this. We are not go -- the intent
24 is not to say you need to have ESG score of X
25 or Y.

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2 MR. KAZANSKY: But wouldn't -- I mean,
3 in my mind in the scenario that John just
4 brought up where we have a company that's at
5 one level and then drops to another, it
6 wouldn't be that we necessarily are out of
7 compliance. But it certainly warrants why did
8 this happen, is this something that we need to
9 be concerned about and have the discussion
10 about whether or not we believe that this
11 particular company can repair that situation
12 and return to our good graces or whether this
13 is something that is so detrimental to how the
14 company is going to move forward that we do
15 need to take some sort of action.
16 MR. FULVIO: I think that's the right
17 approach based on how we think about it, based
18 on how we outlined the process.
19 MS. VICKERS: But there has to be a
20 trigger. My only concern is if we didn't have
21 an MSCI score or something to trigger our
22 investigation as to why that company's status
23 changed and all of a sudden they are employing
24 child labor as part of a business plan,
25 whatever it is, if we don't have that

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2 objective red flag so do we even know these
3 are going to be seen and discussed and brought
4 to our attention? So that's the purpose of
5 our monitoring program is when things change,
6 we want to know about it.

7 MR. ADLER: But it sounds like what you
8 are describing -- again, we had this
9 discussion last month about the challenges of
10 BAM or an internal monitoring program as
11 opposed to hiring a third-party to do the
12 monitoring. And then, in other words, that
13 might be the role that Sustainalytics or MSCI
14 could play. And then also what steps does it
15 take and I think what we had talked about is
16 starting with the engagement process, but then
17 who does that engagement; does our Office of
18 Responsible Investment, Corporate Governance
19 do it?

20 MS. VICKERS: Engagement with the
21 company?

22 MR. ADLER: Yes.

23 In other words, let's just say in the
24 scenario we have talked about the Company X
25 goes above and then goes below because they

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2 are using child labor or slave labor or
3 something like that. And so we say to them
4 hey, you are using child labor, what's the
5 deal here; that's actually shorthand we sic
6 Mike Garland on them. And they say oh, our
7 mistake, we are getting rid of that contract
8 because they are using child labor, blah,
9 blah, blah, it won't happen wherever, I don't
10 know. But I think that the execution of this
11 is tricky and, again, it's like we are really
12 I think moving from a fairly -- or we are
13 proposing to move from a fairly simple on/off
14 switch by country to a much more nuanced
15 approach that may not lend itself to the same
16 compliance on/off. You are either in
17 compliance or you are out that we currently
18 utilize. And I think that part of what we
19 need to do here is figure out what would that
20 monitoring system be, who would be responsible
21 for it, how would they engage with the board
22 and so on.

23 And, you know, like just for example on
24 proxy voting, we don't -- at BAM we don't
25 delegate proxy voting to the managers; we do

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1 Proceedings
2 it ourselves. And so do we then -- I think we
3 have to make a decision, do we delegate

4 monitoring over this, particularly in emerging
5 markets countries, over the company behavior
6 on issues that are important to us? Do we
7 delegate that to the managers or do we
8 undertake it ourselves and then inform the
9 managers oh, we noticed that in your portfolio
10 you have Company X and Company X comes up as
11 below our threshold on our scoring system
12 whatever, MSCI, whatever we use, can you talk
13 to us about that? And, you know, so I --
14 again, and I think we have to map it all out
15 so that we are not springing this on managers.
16 I think we have to map it out and document the
17 mapping out, not just call the managers in for
18 a chat or just have a talk with them when we
19 are doing the manager selection process.

20 MS. VICKERS: We have to map out how
21 trustees can be comfortable with that the
22 investment beliefs are really being followed.

23 MR. ADLER: Right. But I also believe
24 this goes beyond investment beliefs, at least
25 beyond the beliefs as drafted that we are

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2 going to look at in a little while because
3 those are very, very high level. They don't
4 talk about slave labor, they don't talk about
5 child labor, they don't talk about, you know,
6 emissions or whatever other issues that we
7 think are really like unacceptable. You know,
8 they don't talk about governance control which
9 is a big issue in Russia and China that we
10 have seen a bunch of companies that make up a
11 very large portion of the indexes in those
12 companies, so that how do we feel about
13 investing in a -- I already said this last
14 time in e-mails, in a Gazprom that is the
15 largest company in the Russia index that is
16 controlled by the Russian government? That's
17 explicit, it's only about I think less than 50
18 percent of the shares are publicly traded. So
19 do we want our managers investing in a company
20 that is controlled by the Russian government
21 or by the Chinese government or what have you?
22 Now I somewhere got multiple folks looking at
23 my e-mail.

24 MS. VICKERS: Or the American
25 government.

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2 MR. ADLER: Well, if there is a U.S.
3 government company that controlled, we
4 probably don't invest in it anyway. AIG we
5 will talk about AIG, GM in the past. Fannie

6 and Freddie, there we go. I think there is
7 some complexity here by moving away from the
8 country screening that we really have to
9 examine. And maybe that's what I mean on the
10 slide, "revising guidelines" for emerging
11 market managers because those guidelines -- in
12 absence having country screens, I think those
13 guidelines are a much more important document.
14 And I think this statement, which is high
15 level, gets us to the place where we need to
16 be.

17 MR. NANKOF: The guidelines -- because
18 the guidelines do talk about monitoring and
19 what you do monitor, it could speak to the
20 aggregate characteristic of the portfolio. So
21 if we wanted an average score across your
22 companies that you own, that is better than
23 the index, John.

24 MR. ADLER: I don't know that that does
25 it because the index has no value attached to

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2 it at all. It has no investment beliefs
3 attached to it at all.

4 MR. NANKOF: There could be aggregate.
5 Maybe the average scoring being higher than
6 the index alone, maybe it needs to be higher
7 than some measure. But it might be a move
8 away from the individual screening and towards
9 just generally speaking if you read the
10 beliefs here we favor, so "We Favor" says "We
11 generally want companies that are better on
12 the scoring than the scoring on the overall
13 market."

14 MR. ADLER: It does say "we favor" and
15 what we might want to include, but I am not
16 sure if it goes into the beliefs or guidelines
17 we will not invest in companies that employ
18 child labor or slave labor.

19 MS. VICKERS: So maybe we should look at
20 the guidelines. I think some of these
21 questions can't be answered until we know what
22 the investment beliefs say.

23 MR. ADLER: Yes, I think we should just
24 finish this item and then get to the
25 investment beliefs, because I don't think the

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2 investment beliefs is only about the emerging
3 markets.

4 MS. VICKERS: No, it's not, but I don't
5 know -- whatever.

6 MR. FULVIO: What I am hearing though is
7 that we need to -- the board is comfortable

8 with the process as it's outlined, but we need
9 to further develop the portion of the process
10 that looks at how we monitor, specifically how
11 these managers are acting within the
12 priorities of the board is that -- we need to
13 focus on number 4.

14 MR. ADLER: I feel the guideline
15 revision is also very important. I am not
16 familiar -- I assume it's in our IPS -- what
17 our guidelines for emerging markets managers
18 are today. Like are there guidelines? There
19 must be something.

20 MS. VICKERS: I would sort of say that
21 "to be" should just become a "to." I would be
22 more comfortable if we are working on
23 developing beliefs and the revision of the
24 guidelines before we communicate with
25 managers.

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2 MR. FULVIO: We can't communicate with
3 managers until the beliefs statement is
4 finalized.

5 MS. VICKERS: And the guideline.

6 MR. FULVIO: Yes.

7 MS. VICKERS: So I think the sort of
8 next steps is just guidelines and the
9 investment beliefs.

10 MR. ADLER: I think that Mike is also
11 saying that the notion of how we do the
12 monitoring is something that also comes as
13 part of that. This is a whole package;
14 beliefs, guidelines, monitoring,
15 communication. It's all one holistic process
16 that we are all comfortable with as if we are
17 going to move away from the screening, right;
18 does that accurately capture?

19 MR. KAZANSKY: Absolutely. Yes, sir.

20 MR. ADLER: Okay. And I would say that
21 just on number 5 it's not just opportunities
22 for engagement, but the engagement process as
23 well, how we think that would work because I
24 don't think -- I don't believe and I don't
25 know if anybody here knows that we have done a

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1 Proceedings

2 whole lot of engagement of our corporate
3 governance office with emerging markets
4 companies.

5 MS. VICKERS: And, you know, there is a
6 lot of capacity issues and planning issues
7 that would have to go into that.

8 MR. ADLER: But conceivably some of the
9 active managers in emerging managers might

10 have that capacity pull.
11 MR. FULVIO: And we also talked about
12 working with third-parties to assist with
13 that, actually such as those you met with in
14 the first part of this year.
15 MR. ADLER: You mean before the summer?
16 Do they do engagement too or --
17 MR. FULVIO: No. Their biggest focus is
18 actually working directly with companies to
19 examine supply chains, to work on human
20 trafficking, and other issues.
21 MR. ADLER: Yes, there is another one.
22 A lot of bad stuff in the world, seriously.
23 Okay. All right, so does that clarify where
24 we are moving on emerging markets?
25 MR. KAZANSKY: Yes.

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2 MR. FULVIO: So the belief statement
3 which we have already spoken about, this was
4 circulated earlier this summer. And the
5 version that you have in front of you -- I
6 apologize the formatting is making it
7 difficult to read, but includes feedback you
8 received over the last couple of weeks which
9 has been incorporated to this. Is there any
10 further feedback that any of the board members
11 would like to deliberate? Maybe what I should
12 say too is: Since this was last circulated,
13 the things that are highlighted in blue and
14 yellow is what was added. So there was an
15 electronic copy that did not have what's shown
16 in the blue and yellow.

17 MR. ADLER: So let me just say that, you
18 know, when I saw this in the context of the
19 emerging markets implementation plan, it
20 concerned me because I did not think that
21 there was enough meat on these bones to say to
22 give to managers in emerging markets.

23 MR. FULVIO: I would say too -- I know
24 the last conversation was more specific to
25 emerging markets, but this is something that,

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2 you know, we want to be cognizant that all
3 managers are abiding by.

4 MR. ADLER: Understood, but abiding by
5 -- what I believe this will be is a statement
6 of what the board believes. It's not -- I
7 don't think there is enough there to
8 communicate to managers this is what you
9 should be doing and this is what you should
10 not be doing.

11 MR. DONE: Objective metrics.

12 MR. ADLER: Yes. In other words, they
13 are going to get this and understand which
14 companies to buy or not buy. Like that didn't
15 cut it for me now. Now that we are adding in
16 the thing about guidelines with more
17 specificity and a monitoring program of all
18 that, that makes me more comfortable.

19 MR. FULVIO: This is not meant to
20 accomplish the specificity you described.

21 MR. ADLER: So let me just say it's a
22 process. The funds that I am familiar with
23 that have developed investment beliefs have
24 carried out a much more extensive process
25 than, you know, a draft being circulated and
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1 Proceedings
2 then remarked upon. So CalSTRS, for example,
3 went through a very, very long facilitative
4 process, CALpers did that. At NYCERS where we
5 developed adopted beliefs in June, we started
6 the process I think last fall with a
7 subcommittee that examined investment belief
8 statements of about, I don't know, fifteen or
9 twenty pension funds around the country and in
10 fact around the world. So, I mean, I think
11 this is a good statement. I am not sure it
12 captures everything that should be in it and I
13 am also -- I also think there are some things
14 in it that aren't necessarily investment
15 beliefs.

16 So, for example, just as an example the
17 second bullet under -- so under the third "We
18 believe" which is about expenses and fees it
19 says -- the second bullet, it's the one
20 without any highlights says "Active management
21 fees will be structured to take advantage of
22 the system's scale and to align interests
23 between the system and the manager." That's a
24 practice; that's not a belief. That's not
25 like "We believe." It's like okay, this is
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1 Proceedings
2 the way we are going to operate.
3 I think the investment beliefs should be
4 things that we believe and not constitute
5 either an investment policy statement or
6 investment guidelines or anything like that.
7 It should be a restatement of beliefs, in my
8 opinion. So I think there are some things in
9 here that I don't think necessarily belong in
10 beliefs and that there is some things that may
11 not be in here that probably do. That's my
12 belief. So I would like to see us engage in a
13 little bit more iterative process before we

14 get to a final product.

15 MR. FULVIO: I should just add too, I
16 think the intent of circulating this early
17 this summer was to start that process. So
18 that's good feedback and I want to remind the
19 board that we hope that that transpires.

20 MR. ADLER: So in terms of moving
21 forward, I think what we might want to do but
22 we don't have to is have a little committee,
23 subcommittee work with Rocaton to, you know,
24 further it and maybe it ends up right where it
25 is now or maybe we suggest some changes. Does

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2 that make sense?

3 MR. KAZANSKY: So I don't necessarily
4 have a problem with that, but I want to make
5 sure that we don't get sucked down a rabbit
6 hole where ten months from now we are fighting
7 over a word "the" or "a" in the belief
8 statement. I want it to be something that we
9 are proud to put out there and that we are
10 comfortable with, but we are all very thorough
11 folks and sometimes that works to our
12 advantage and sometimes, you know, many years
13 later we are still looking over the same
14 document trying to figure out where stuff
15 should go.

16 So if we are going to do something where
17 we kind of poke at this and prod at this I
18 would rather it be something that we put
19 together quickly, that we have to abide by
20 such and such a date where we are at least
21 going to have -- we are going to have a
22 version that we are comfortable putting out
23 now that -- and we can refer and revise later
24 on if we need to. Because just as we talked
25 about with the emerging markets screens that

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2 we are looking to put into place, those kind
3 of hinge on this document being done. So
4 every delay with this is going to delay
5 movement with that. And, if anything, we have
6 communicated to everybody here that, you know,
7 we want to start putting those screens into
8 effect as soon as possible because our current
9 Russia, China, Pakistan isn't cutting it and
10 is leaving us out of a lot of opportunities
11 for investment where we can bring returns in
12 for the fund.

13 MS. PENNY: I think to Mike's point, he
14 did put this out, we had some input so we were
15 fine with it and you had some input as well.

16 Is there anyone else who just wants to put it
17 out for a certain amount of time longer, a
18 little bit longer?

19 MR. ADLER: So my feeling, Debbie, is
20 that I haven't had really enough time to
21 really focus in on it.

22 MS. PENNY: So we will just extend.

23 MR. ADLER: I am fine setting a deadline
24 so it doesn't go on forever, and we could do
25 it for next month or the month after.

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1 Proceedings

2 MR. KAZANSKY: Why don't we shoot for
3 next month.

4 MS. VICKERS: And then maybe Rocaton, if
5 I can ask you to be in charge of any edits
6 that people submit, put it in the document and
7 then recirculate that one document with
8 everyone's suggestions.

9 MR. FULVIO: We will take this as a
10 starting point and anything we receive
11 feedback on, we will incorporate it to the
12 changes.

13 MR. BROWN: John, even if you take that
14 second bullet and say we believe that active
15 management fees will be structured, so that
16 there is a fine line between a belief and
17 practice. I agree asset management fees
18 should be structured to take advantage of the
19 system's scale. To me, that's a belief.

20 MR. NANKOF: Seems fair. Some of the
21 others are worded in exactly that way. And if
22 you took out "We believe," should be turn it
23 into a practice. Beliefs can actually just
24 translate into practice.

25 MR. ADLER: To me, that's not the point.

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2 The point is actually to have a statement of
3 belief that's a higher-level document, because
4 we also have investment policy statement.
5 That's the nuts and bolts; that's a great way
6 of putting it. So this ought to be sort of
7 what our philosophy is, what we stand for, and
8 then in the IPS I think you have stuff that's
9 more nuts and bolts. That's my belief.

10 MR. BROWN: That's the practice?

11 MR. ADLER: Yes, that's the practice.

12 MS. REILLY: A facilitated workshop to
13 help to get all the ideas and thoughts out on
14 the table to finalize it.

15 MR. BROWN: This was never intended to
16 replace the IPS.

17 MR. ADLER: No, it's the introduction to

18 the IPS.
19 MR. BROWN: If you want to work with us,
20 then you have --
21 MR. ADLER: I would agree with that if
22 the trustees think it's necessary. Did you
23 hear what Patricia said?
24 MS. PENNY: To have a workshop.
25 MS. REILLY: Or just one day where you

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1 Proceedings
2 have a discussion on the beliefs, finalize it.
3 MS. VICKERS: Even half a day.
4 MR. KAZANSKY: Or twenty minutes.
5 MS. PENNY: Why don't we start, send it
6 out, extend it for a little bit, see if that's
7 necessary. Maybe it's not more than it has to
8 be. I think the second highlighted, "We favor
9 strategies," that's everything we are looking
10 for right there; good conduct, fair labor
11 practices. That's such an important part, so
12 that's a good, you said, jumping off that
13 point. And if we need to, there are so many
14 people that have comments and maybe we could
15 have a small --
16 MR. FULVIO: Maybe what we will do is I
17 will send this out to solicit feedback and in
18 the same e-mail request availability for
19 follow-up discussion and then we will talk
20 about it on that discussion.
21 MR. ADLER: Great.
22 MR. KAZANSKY: That works.
23 MR. BROWN: Maybe we could have a time
24 frame, but by next investment meeting we will
25 have this done.

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2 MR. ADLER: If we could swing it. Keep
3 in mind some of us go to a lot of meetings and
4 there is also two Jewish holidays this month,
5 so it's a tough month.
6 MR. KAZANSKY: While you are fasting on
7 Yom Kippur.
8 MR. HADDAD: I can just add: On the
9 emerging market screen and timing with BAM you
10 referenced on the portfolio for the systems,
11 we are in the middle of an emerging market
12 search. Our anticipation is to come to the
13 CIM in the spring of '19 with recommendations,
14 so just to give you a sense of what we are
15 working on. If we could tie the two together,
16 it would be --
17 MR. ADLER: So ideally if we have our
18 revised guidelines in place before we do the
19 search, then that --

20 MR. HADDAD: The search is starting.
21 MR. ADLER: Not before we make our
22 decision.
23 MR. HADDAD: Yes, that would be helpful.
24 MR. ADLER: Great.
25 Okay, so I think that concludes the

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2 public agenda. Anybody disagree with that
3 statement? Okay, so I do think a motion to
4 enter into executive session would be in
5 order.
6 MS. PENNY: I move pursuant to Public
7 Officers Law Section 105 to go into executive
8 session for discussion on specific investment
9 matters.
10 MR. ADLER: Thank you, Debbie.
11 Is there a second?
12 MS. VICKERS: Second.
13 MR. ADLER: Thank you, Susannah. Any
14 objection? All in favor of the motion to
15 enter executive session, please say aye.
16 Aye.
17 MS. VICKERS: Aye.
18 MS. PENNY: Aye.
19 MR. KAZANSKY: Aye.
20 MR. BROWN: Aye.
21 MR. ADLER: All opposed, please say nay.
22 Any abstentions? Motion carries.
23 All right, we are in executive session.
24 (Recess taken.)
25

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1 Proceedings
2 MR. ADLER: There is a motion to exit
3 executive session and go back into public
4 session. Is there a second?
5 MS. VICKERS: Second.
6 MR. ADLER: Thank you, Susannah. Motion
7 made and seconded. Any discussion? All in
8 favor of the motion to exit executive session
9 and enter public session, please say aye.
10 Aye.
11 MS. VICKERS: Aye.
12 MS. PENNY: Aye.
13 MR. KAZANSKY: Aye.
14 MR. BROWN: Aye.
15 MR. ADLER: All opposed, please say nay.
16 Any abstentions? Thanks.
17 We are back in public session. Susan,
18 would you report out of executive session.
19 MS. STANG: I would, but first I would
20 like to acknowledge that Komil Ataed part of
21 our group here at TRS passed his level 3 of

22 CFA.
23 (Applause.)
24 MS. STANG: And in executive session,
25 one manager update was presented. Consensus

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2 was confirmed on a specific private
3 investment. We received a presentation from a
4 service provider. There was a presentation
5 and discussion of the international composite
6 within Variable A and the International Fund
7 and there was a presentation and discussion
8 about the commission recapture program and
9 trading costs.

10 MR. ADLER: Thank you so much.

11 I believe that concludes our business
12 for today. A motion to adjourn would be in
13 order.

14 MS. PENNY: So moved.

15 MR. ADLER: Is there a second?

16 MS. VICKERS: Second.

17 MR. ADLER: Any discussion? All in
18 favor of the motion to adjourn, please say
19 aye.

20 Aye.

21 MS. VICKERS: Aye.

22 MS. PENNY: Aye.

23 MR. KAZANSKY: Aye.

24 MR. BROWN: Aye.

25 MR. ADLER: All opposed please say nay.

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2 Any abstentions?
3 Meeting is adjourned. Thank you very
4 much.
5 (Time noted: 1:47 p.m.)

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Proceedings
C E R T I F I C A T E
STATE OF NEW YORK)
: ss.
COUNTY OF QUEENS)

I, YAFFA KAPLAN, a Notary Public
within and for the State of New York, do
hereby certify that the foregoing record of
proceedings is a full and correct
transcript of the stenographic notes taken
by me therein.

IN WITNESS WHEREOF, I have hereunto
set my hand this 18th day of September,
2018.

YAFFA KAPLAN