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NEW YORK CITY TEACHERS' RETIREMENT SYSTEM

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INVESTMENT MEETING

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Held on Thursday, June 1, 2023

Via Videoconference

6

10:09 a.m.

7

ATTENDEES:

8

THOMAS BROWN, Chairman, Trustee

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PATRICIA REILLY, Executive Director, TRS

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DAVID KAZANSKY, Trustee

11

VICTORIA LEE, Trustee

12

BRYAN BERGE, Trustee, Mayor's Office

13

ALISON HIRSH, Trustee, Comptroller's Office

14

ANTHONY GIORDANO, Trustee

15

ANGELA GREEN, Trustee

16

DEVON ALEXANDER, Rocaton

17

AMANDA JANUSZ, Rocaton

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KATE VISCONTI, Comptroller's Office

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REPORTED BY:

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RIVKA KAPLAN

JOB NO. 9520833

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ATTENDEES (Continued):

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LIZ SANCHEZ, Teachers' Retirement System

4

THAD McTIGUE, Teachers' Retirement System

5

JOHN DORSA, Comptroller's Office

6

KOMIL ATAEV, Teachers' Retirement System

7

RON SWINGLE, Teachers' Retirement System

8

STEVEN MEIER, CIO, Bureau of Asset Management

9

DAN HAAS, Bureau of Asset Management

10

ED BERMAN, Bureau of Asset Management

11

JANET LONDONO-VALLE, Bureau of Asset Management

12

TOM CARROLL, Bureau of Asset Management

13

ENEASZ KADZIELA, Bureau of Asset Management

14

ALLAN MACDONNELL, Bureau of Asset Management

15

MINJOO NA, Bureau of Asset Management

16

JENNIFER GAO, Bureau of Asset Management

17

DINA FARHOUD, Bureau of Asset Management

18

DAVID LEVINE, Counsel

19

JIMMY YAN, Comptroller's Office

20

SUMANTA RAY, Mayor's Office

21

KEVIN LIU, Mayor's Office

22

JOHN GLUSZACK

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2 ATTENDEES:

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4 MARC RIVITZ, StepStone

5 DEV SUBHASH, StepStone

6 JAMES MAINA, StepStone

7 YING LIN, StepStone

8 JUSTIN THIBAUT, StepStone

9 ARISTA AFTOOMIS, Teachers' Retirement System

10 ISAAC GLOVINSKY, Teachers' Retirement System

11 MAREK TYSZKIEWICZ, Office of the Actuary

12 SEAN BARBER, Hamilton Lane

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3 MS. REILLY: Good morning. Welcome to

4 the Investment Meeting of the Teachers'

5 Retirement Board of June 1st, 2023. I will

6 start by calling the roll. Kevin Lu?

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8 MR. LIU: Here, representing Mayor

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10 Adams.

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12 MS. REILLY: Thomas Brown?

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14 MR. BROWN: Here. Good morning,

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16 Patricia.

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18 MS. REILLY: Dr. Angela Green?

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20 DR. GREEN: Dr. Green here, present.

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22 MS. REILLY: Thank you. Alison Hirsh?

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24 MS. HIRSH: Present, Representing

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Comptroller Brad Lander.

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2 MS. REILLY: David Kazansky?

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4 MR. KAZANSKY: Present.

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6 MS. REILLY: Victoria Lee?

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8 MS. LEE: Present.

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10 MS. REILLY: We have a quorum. I'll

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12 turn it over to members of the chair.

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14 MR. BROWN: Good morning. Thank you,

15

16 Patricia. Good morning everybody. We will

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18 start with the Passport Funds First Quarter of

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20 2023 Performance Review. I guess we will ask

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2 Rocaton to do that.

3 MR. FULVIO: Thanks, Tom. Okay. This
4 is an excerpt from the quarterly report which
5 was distributed ahead of time. Happy to
6 address any questions. But I was just going
7 to cover off as a reminder for everyone what
8 the Passport Funds' performance essentially
9 was for the quarter. We saw a fairly strong
10 start to the year across equity markets, which
11 resulted in positive results across the funds.
12 You will recall the diversified equity fund
13 was up over seven percent in the first three
14 months of 2023. We saw a positive value
15 driven ad by active manager contributions in
16 both developed, and excuse me -- in US and
17 non-US equity markets. So that was certainly
18 positive to the performance of the funds in
19 the quarter.

20 Across the other balance funds, we also
21 saw positive returns -- excuse me -- the
22 passport funds. The balance fund had a return
23 of just over 3.5 percent. The international
24 equity fund was up just about eight percent
25 ahead of its benchmark, and we saw very strong

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2 results from the sustainable equity fund in
3 the first part of this year, with that fund up
4 over 14 percent, and then beyond that the two
5 index funds offered as part of the Passport
6 Funds' offering, both up over six percent with
7 the US outpacing non-US, by just shy of one
8 percent.

9 So again, it was a very strong quarter
10 in terms of both absolute market performance
11 and relative results. Again happy to address
12 any questions in more detail, if there are
13 any. Otherwise, we will move ahead in more
14 recent news and go through the report for
15 April.

16 MR. BROWN: Any questions relative to
17 the Passport Funds April 2023 performances
18 review? Okay.

19 MR. FULVIO: I will pull that up as
20 Amanda is beginning to present.

21 MS. JANUSZ: Amanda Janusz. So the
22 month of April was a bit more subdued after a
23 pretty active first quarter. So despite some
24 of the ongoing concerns related to the banking
25 sector, the month of April was largely

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2 positive across the board, although relatively

3 small absolute returns.

4 So looking across the Passport Funds,
5 all positive absolute results with the
6 exception of the sustainable equity fund,
7 which goes down about 70 basis points for the
8 month of April, although as Mike mentioned, it
9 had a very strong start to the year. So if
10 you look out to the year-to-date period, the
11 fund is still up 13.6 percent year-to-date.

12 For the diversified equity fund, which
13 is where the bulk of the assets are for the
14 Passport Funds, for the month of April, up
15 right around 1.2 percent and in line with that
16 index. We did see a bit of underperformance
17 from the acting US equity component.
18 Although the active international equity
19 managers did outperform, offsetting that end
20 of performance from the US equity managers and
21 that has carried forward to the year-to-date
22 period as well. So you can see the
23 international equity composite is up over ten
24 percent year-to-date through the end of April.

25 In terms of some of the other options

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2 here, the balance fund, up about 75 basis
3 points for the month of April, and 4.3 percent
4 year-to-date through the end of the month and
5 just slightly outperforming that balance fund
6 benchmark, and -- in your index funds, down
7 towards the bottom of the page, we're tracking
8 their benchmarks as we would expect for both
9 the month of April and the year to date
10 period. So are there any questions on April?

11 MR. BROWN: Questions for Amanda?

12 MR. MEIER: So we're going to go to now
13 to May 2023 Market Performance Update. Devon,
14 do some magic here. Please state your name
15 for the court reporter.

16 MR. ALEXANDER: Devon Alexander for the
17 record. So for the month of May, we did see a
18 sort of mixed of flat performance across the
19 board. We saw that the global market
20 composite benchmark was up by .3 percent, and
21 the diversified equity funds up by almost one
22 percent. The rest of the performer for the
23 period for the month of May was sustainable
24 equity fund, with unrealized funds were up by
25 4.76 percent and 4.99 percent, and so the

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2 weakest performer for the month was the
3 international equity benchmark, which was down
4 by 3.46 percent.

5 On the year to date calendar basis, we
6 would like to address that, I guess, point out
7 that we are starting to see some separation
8 between the regions. If you want to look at
9 the rest of 3000 Index, you can see that it's
10 up by 9.39 percent year-to-date versus the
11 ex-US, which is only up by 6.3 percent, and
12 even further down the page, emerging market
13 index is only up by 2.52 percent. So again,
14 we are starting to see some outpacing in the
15 US market versus the international market.

16 So the main takeaway for the month is
17 that we are starting to monitor -- well,
18 continue to monitor market reaction to the
19 debt ceiling agreement recently. Also
20 monitoring any re-emergencies of stresses in
21 regional banks, and as always missionary and
22 missionary trends. And yeah, any other
23 questions?

24 MR. BROWN: Thank you. Any questions
25 for Devon. So let's move on. Thank you,

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2 Devon.

3 We're now at the Fund's Strategic Asset
4 Allocation, also known as SAA, Capital Market
5 Assumption Review. We go to Fulvio's office
6 to speak.

7 MR. MEIER: Actually I've asked Ed
8 Berman will speak shortly. Thank you,
9 Chairman Brown. Also let me just reflect,
10 it's a 30-minute presentation, but because of
11 the importance of the strategic asset
12 allocation, I wanted Ed to go first. So if he
13 runs long, I'll go shortest. We will make up
14 some time in the back end.

15 MR. BROWN: Okay.

16 MR. BERMAN: Good afternoon. Before we
17 jump into asset allocation, just to mention
18 that for the purpose of time, we are skipping
19 the regular risk update, but the materials are
20 available on Convene. Broadly speaking, there
21 are no big changes from the biggest quarter,
22 and any questions I can take them now or later
23 or at any point.

24 With this in mind, let's switch to asset
25 allocation. Devon, the first page, please.

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2 Next page. Thank you. So what you see on the
3 screen is your current asset allocation. So
4 it was approved by the board in 2018, and it
5 was implemented by them by around the end of
6 the first quarter, 2019.

7 So clearly there are three buckets.
8 There is public equity, public fixed income,
9 and alternatives, and broadly speaking, your
10 portfolio, your asset allocation, is similar
11 to about the 60/40 classic portfolio; 60
12 percent equity, 40 percent fixed income. I
13 think you have a slightly higher weight of
14 equity, 62.5.
15 So just to remind you the process of
16 asset allocation broadly speaking, goes
17 through two distinct stages. In the first
18 step, we will formulate the capital market
19 assumptions, which is really a projection for
20 the next ten years over the median expectation
21 for the returns, for risks, and for public
22 deals -- correlation for how asset classes
23 interact with each other.
24 On the second stage, we actually do
25 the -- we selecting the individual asset

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2 clauses, we assign the weights, and it's done
3 using the statistical technique, the scope,
4 meaning the optimization, to use a technical
5 term.
6 So today we're talking about the
7 inclusion of the first step, Capital Market
8 Assumption, arguably probably the most
9 important step of the process and obviously no
10 one knows the future. It's unpredictable and
11 unknowable, and yes, we are aware we are
12 making projections, and there is really no
13 widely commonly accepted methodology, because
14 we're talking about the future. It's some
15 blend of historical events, mini version, and
16 some holistic views on the economy, on the
17 markets, and some further projections.
18 We are in a somewhat unique position for
19 the benefit of seeing across five systems, and
20 so the unique feature for this presentation,
21 we're stepping outside of the teacher's
22 portfolio, looking across all five systems,
23 which gives us a broad horizon, broad
24 overview, and a good point of comparison how
25 your assumptions could be used by Rocaton. We

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2 have Mike here on standby for any questions I
3 hope, and --
4 MR. MEIER: I should also comment that
5 obviously we work very closely with Mike and
6 his team and the collaboration has been great,
7 but this is more informational. So if you
8 know by contrast, your general consultant is

9 responsible for strategic asset allocations,
10 so we have been working closer. But because
11 we have the purview of looking across the five
12 plans and the assumptions of five general
13 consultants, we thought it made sense to
14 present that to the board.

15 So it's probably the most important
16 decision that you will make as trustees. So
17 we want to make sure we give as much
18 information, be as transparent in the process.
19 So the idea that Ed's going to go through a
20 series of wonderful slides that Ed's put
21 together, but the idea to browbeat any of the
22 general consultants have them change their
23 views, as Ed said earlier, no one knows what
24 the future is going to be. I do think that
25 the Rocaton Goldman Sacks have a unique

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2 approach, so Mike as well, and Rivka, I have a
3 habit of interrupting Ed too often.

4 MR. BERMAN: That's fine. Just as Steve
5 mentioned, Rocaton's approach is slightly
6 different from the other systems, where
7 Rocaton, I'm not going to speak in-depth
8 though, if you have questions ask Mike, but
9 it's common across asset management
10 consultants to model individual asset classes,
11 starting with the basic building blocks.

12 I think Rocaton is slightly different.
13 It's identified the main fundamental driving
14 forces in the economy and the markets, so both
15 factors, and model assets from there.

16 What you will see later on, there is
17 some difference, some minor differences, how
18 Rocaton came across all other systems, but the
19 end results are actually very similar, and in
20 line with other systems.

21 But the important question to ask is why
22 we're talking about this today? Like why is
23 it relevant for asset allocation? So let me
24 give you the answer to the question. First of
25 all, it's the markets. So obviously when

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2 we're still going go through extraordinary
3 time, with inflation, COVID, the ground war in
4 Europe, and I think talking to all five
5 systems, all consultants, the message is that
6 the majority of their clients are the pension
7 funds, their peers are going through the same
8 exercise right now.

9 So the time is ripe and we will be
10 probably talking about it any way, but, of

11 course, the pension systems within New York
12 State, the state have, as everyone knows,
13 something a unique and strange, the basket
14 clause, which was just relaxed from 25 to
15 35 percent. So these two reasons combined
16 pushes us towards for asset allocation.
17 So let's spend a couple of minutes on
18 the basket clause. Can we go to the next
19 page, please? So obviously it's all
20 legislation from the 1960s, and broadly
21 speaking the basket clause has three types of
22 assets. You can see them color coded on the
23 screen. So the green category is non-basket
24 assets, which includes essentially the listed
25 public equities and fixed income instruments

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2 domestically. There are no restrictions, and
3 that's, of course, the US equity sleeve, the
4 core fixed income, and the TIPS.

5 The second category, the assets that we
6 can hold up the ten percent, but anything in
7 the excess of ten percent comes to us in the
8 basket clause. You can see on the screen that
9 first of all, it's the foreign equities. You
10 can see the combination of two sleeves. It's
11 Developed ex-US plus emerging markets, and
12 currently you are close to 20 percent
13 utilization, which means that 9.8 percent
14 counts towards the basket clause.

15 High yield, in the domestic fixed income
16 is still restricted. That, as you can see, we
17 have plenty of capacity.

18 So the basket clause legislation is
19 taking the holdings over ten percent. The
20 current utilization is 23.5, is plenty for
21 high yield. We will be talking more about it
22 in the presentation, and finally, the
23 alternatives, which is probably the biggest
24 utilization of the basket clause currently,
25 and clearly, private equity, private credit is

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2 hundred percent counted towards the basket
3 clause, and that's where we are restricted,
4 and the real assets, which is defined as
5 infrastructure plus real estate is exact of
6 ten percent. So you can see currently there
7 is non-utilization basket clause, but we are
8 cutting close to the slip.

9 So the impact of this basket clause on
10 your pension system, your pension fund, it
11 appears there are some distortions. So first
12 of all, the US asset allocation is probably

13 higher than what it should be. When I say
14 higher than it should be, I am really thinking
15 about the MSCI ACWI, which is a broad measure
16 of equities. So you have higher allocation of
17 US equity, which actually worked quite nicely
18 in the past, because it was one of your asset
19 classes globally.

20 And then on the alternative side, so
21 private equity and private credit. That's
22 where the allocation is lower than it appears,
23 right? So it's probably more typical to see
24 low double digits maybe up to 20 percent. You
25 have much less than that. So as now we have

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2 another ten percent of the basket clause.

3 On the next step of the chart, we will
4 be talking about the most efficient
5 utilizations, which we will not talking about
6 at this stage, but we can touch up on it, as
7 we go through the presentation.

8 So the rest of the presentation is
9 structured in three broad sections. So the
10 first section we will talk about the 2018
11 projections, and how they stacked up against
12 the realized performance, the realized
13 outcome. The second section we will take a
14 look at the 2018 projections against the
15 current image, the average across all the five
16 systems and finally, probably, the most
17 interesting section we will look at the
18 dispersions across the consultants, and we
19 will see some outliers with these asset
20 allocations.

21 So with this in mind, let's dive into
22 the first part. A lot of charts. But they
23 are all structured the same way. So what you
24 see at the top is the comparison of the
25 returns. The bottom row gives you the

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2 comparison of the risks of volatility and what
3 you see here, the gray bars, is the average
4 across all five systems. The light orange
5 bars shows the performance of corresponding
6 market activities. So that's why you do
7 apples to apples, because market assumption is
8 formulated across all markets -- not for the
9 managers, and finally, the orange bar is the
10 average performance of the systems. Again,
11 we're talking about the average, and that's
12 where you see the effect on the manager's
13 selection.

14 So let's start with chart one, which is

15 the public equities, the fixed sleeves. The
16 first thing that jumps at you is US large cap,
17 and performance of US equities. All of the
18 assumptions were conservative. All US
19 equities performed well and above
20 expectations, and put into perspective a long
21 term performance for US equities, about
22 7.5 percent.

23 So it's clearly excellent period, and
24 the same to the less extent calls for
25 developed ex-US. So the developed ex-US

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2 exceeded expectation.

3 MR. MEIER: I want to mention, but the
4 assumptions are -- they're ten-year
5 assumptions. It's over much a shorter
6 timeframe, three, four years. All those
7 assumptions still may be correct.

8 MR. BERMAN: Yes, they still got six
9 years to go. On the risk side, you see how
10 the assumptions lined up with the realized
11 outcome quite nicely, and that's not
12 surprising, because generally speaking the
13 risk level of the volatility tends -- and the
14 economy, and the markets rather.

15 The only interesting takeaway is that
16 the emerging markets will project is a high
17 risk asset. That's probably the perception of
18 most people. That's not how it played out.
19 Actually you can see that the risks in the
20 emerging markets are much lower than United
21 States, and that's really because of high
22 exposure to technology sector which tends to
23 be high risk high volatility.

24 On the fixed income side, chart number
25 two, what you see is really a consolidated

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2 period for US fixed income, and most US
3 treasuries, and however many hundred years,
4 you can see it's a unique period, but clearly
5 the outcome was disappointing. We don't know
6 why it is. Probably it will change for the
7 next six years, and as much as it undershot on
8 the performance, it overshot on risks, and
9 again we all know that the volatility of fixed
10 income is a strong unprecedented time.

11 But the interesting thing that jumps at
12 you in chart two is high yield, and the
13 other -- is presentation, and what jumps to me
14 is the predictable nature of this asset
15 clause. You see how well the realized return
16 lined up against the assumptions, and also the

17 risks. The case gets lower, which is a good
18 income?

19 And finally the last thing that kind of
20 jumps at me from this page is the positive
21 impact of the managers, right? We're talking
22 about the orange bars that are the light
23 orange bars, the US large cap you don't expect
24 much, given that the majority of them is
25 like 80 percent is index. But across all

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2 other assets, developed ex-US, you see a
3 positive contribution. Emerging markets, more
4 than ten percent of outperformance. It's hard
5 to complain about that. US Core -- large
6 variety comes from the outperformance. Again,
7 the one thing that comes outperformance in
8 turbulent times, I see it as a positive.

9 And finally, high yield, again, you
10 imagine, you live at 40 basis points
11 outperformance, which is usually positive,
12 which is interesting, it delivers
13 outperformance, while taking less risks, and
14 that's unusual. Again, it's a positive
15 outcome. So altogether I say the results were
16 good for the past few years.

17 And the next page, we can go to the next
18 page 3, the same exercise in private markets.
19 I would say it's in line with public markets.
20 First of all, the assumptions, I'm looking at
21 private equity, the grey bar, the assumptions
22 included about the 50 percent premiums, the
23 liquidity premium, and you can see the outcome
24 reflects the liquidation of this market. The
25 results, is public equity of that outcome than

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2 US large cap. It's not a good comparison, but
3 nonetheless, you can see it across all assets
4 clauses. Infrastructure, really positive
5 performance. Private credit, comparable to
6 high yield, about a two percent
7 outperformance, as you would expect. Core
8 real estate really probably the most standout
9 feature of this chart. You can see the core
10 real estate delivered strong high performance
11 over non-core, which is public -- but again
12 positive performance for asset clauses for the
13 managers.

14 Just one word of caution, looking at the
15 volatility at the bottom row of this page, you
16 can see that the realized outcome is
17 significantly below the projection, and that's
18 simply the nature of this asset clause. So

19 there is no -- volatility of smoothing, since
20 the asset is not marked market to market, it's
21 marked to model? So how do we deal with this
22 in terms of projections and --

23 We usually think of volatility as a
24 product of risk. We recognize that they --
25 for shield -- not necessarily a problematic

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2 risk. So to compensate for it, all five
3 systems, all five consultants tend to bring
4 the volatility higher. But how much higher,
5 we will see in the next section. But that's
6 why you see that the field for volatility is
7 significantly exceeding the US outcome. It's
8 significantly higher, and we will see more of
9 it going forward.

10 So shifting towards the current
11 assumptions, the next page, please. So here
12 we are looking it at the change in the average
13 assumptions across the systems. Again, the
14 gray bars represent the assumptions from 2018.
15 The black box represent the average of the
16 current -- for 2023, and I would say the
17 message here is about evolution, not
18 revolution, especially on the public equity
19 side, you can see the numbers change slightly,
20 probably in line with -- performance. You can
21 see that the US large cap most likely higher,
22 not dramatically. Developed world ex-US
23 probably in line with emerging markets --

24 Just to put these numbers into
25 historical perspective, if you look at it long

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2 term, about fifty to hundred-year performance,
3 obviously US is over a longer period, other
4 markets, less. For US large cap, a long term
5 performance is 7.5 percent. So it's yielding
6 slightly above these projections.

7 Again, you just saw that in the past
8 four years, the performance was extraordinary.
9 So you can probably expect some mini versions,
10 not surprising, and on the emerging market
11 side, the long-term performance was 6.8
12 percent, so the projection returns is
13 significantly higher. But again, you can see
14 these emerging markets, it's probably less of
15 a guidance.

16 Just think about China, right? So
17 50 years ago China was a footnote. Currently
18 China is now the -- economy, and one of the
19 main competitors of our economy. So I would
20 say in the emerging market history is less of

21 a -- and on the fixed income, clearly the
22 projections reflect the risks and risk prices
23 for fixed income. The yields mostly risk
24 higher, than the US Treasury and Core side.
25 So you can see US Core, the projected returns

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2 went from 3.4 to 4.4. The fixed income for
3 Core Domestic public fixed income is 6.6
4 percent. But again, to put this in
5 perspective, the interest rates of the -- is
6 performed over 20 percent. They declined to
7 almost negative level before the pandemic.
8 Mathematically it's hard to extend the same
9 fixed income value from the confines of
10 5.6 percent, with the high yield of 20 percent
11 of the full market.

12 So it's completely understandable the
13 pricing on the return side, and also on the
14 risk side of this, is slightly higher
15 consistent with the current market
16 environment.

17 Again, I would like to single out high
18 yield. The returns are slightly higher. The
19 risk assumptions stayed about the same and
20 again going back to my message of predictable
21 nature in the asset clause.

22 Moving on towards alternatives, can we
23 go to the next page, please. The same
24 message, it's evolution, not revolution. You
25 see that the returns is mostly slightly

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2 higher, in line with public market. No future
3 surprises on private equity or private
4 infrastructure side, but you can see it's good
5 a point of reference.

6 And on the right-hand side of the page,
7 you can see the private credit. It just stays
8 about two percent liquidity premium versus
9 public markets. Core real estate, the risk is
10 slightly higher, again in line with the --
11 performances. Non-core is about the same.

12 So with this mind, I think let's move
13 towards a more interesting section. Turn to
14 the next page. Where we look at the
15 dispersions across the five systems, and we
16 start with the fundamental building blocks
17 like the macro assumptions, and that's the
18 inflation, cash, and treasury assumptions. Of
19 course inflation is the biggest one, right.
20 It's hard to tell how it will play out, the
21 different projections, there are different
22 opinions, but the truth is nobody knows.

23 So with this in mind, it's interesting
24 to see chart number one, that all five systems
25 are in broad agreement on the issue of

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2 inflation. So you can see, it's mostly at 2.5
3 percent, and it's probably not that
4 surprising, given first of all that it's not
5 far from the number of the federal reserve of
6 2 percent, and also the inflation projections
7 were probably similar.

8 So again no big takeaway from this
9 charge. We will see more of dispersions in
10 chart number two, cash assumptions. Okay. If
11 we put into perspective historically the cash
12 assumptions is slightly below inflation. But
13 obviously the big question, the elephant in
14 the room, is the path towards disinflation,
15 and when you see the difference in projected
16 returns, it's how we position from this high
17 inflation environment to the normal
18 environment over years.

19 You can see for example, Callan, it's
20 like came out at the low end, at 2.8 percent
21 assumption, and that is because they yield a
22 faster path of disinflation. So they see
23 inflation coming down fast. On the other side
24 of the spectrum, you see Wilshire and NEPC at
25 4 percent. It's the opposite. They assume

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2 that inflation is stay elevated for a longer
3 period of time, and then come down to the same
4 level, so they assume returns are much higher.

5 Rocaton again, Mike in the room, maybe
6 on the low end, but probably closer to the
7 average. Again there is no huge disagreement.

8 But I single out this chart, because
9 cash is the most fundamental building block.
10 It goes into building assumptions for all
11 other asset clauses, and later on we will talk
12 about Sharpe ratio that we will able to see.

13 And finally, chart number three, US
14 Treasuries. To be honest, given chart number
15 two, cash assumptions, I expected more
16 dispersion, that's not really so. You see
17 that the whole system is in broad agreement
18 and again this is more about the shape of the
19 u-curve, which is considerable. Given similar
20 inputs, it's not surprising that the
21 assumptions are like similar. So nothing to
22 take away.

23 So let's dive into the individual asset
24 clause, and go to the next page, please.

25 Thank you. So I started with public equity,
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2 so we look at all these sleeves. Look at
3 chart number one. US equities. This really
4 is the most important building block for your
5 portfolio. So you have a 27 percent
6 allocation for large cap. Maybe it will come
7 down slightly, with the basket clause, but
8 it's interesting to see how broad range the
9 consultants put on this asset clause, right.
10 So the returns, again Rocaton came in the
11 middle of the range, but you can see the
12 assumption ranges from 5.4, from low 5.4 to a
13 high 7.7. It's a broad range.

14 On the risk side, the volatility, chart
15 number two, there is more of agreement, which
16 is not surprising that the volatility -- over
17 time, and that's what you see here a big the
18 difference. Rocaton comes in slightly lower
19 versus the other systems, and the same message
20 is across all three equity sleeves.

21 So what's important is when you make
22 this comparison is not really looking at US
23 equities, Rocaton talk -- about versus the
24 assets, and asset clause, what's important
25 here for asset allocation is to see the

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2 consistency within each consultant, right?
3 The same theme runs through all asset
4 clauses. Rocaton comes in slightly lower
5 risk, so on a rapid basis there is
6 consistency, which makes that similar outcome
7 for asset allocation. Probably the only
8 difference you see here on the emerging market
9 side is more dispersion, which is again not
10 really not surprising to me, given that this
11 asset clause underwent a lot of changes, again
12 because of China, and so we see China now
13 is -- the economy of China is in a very
14 peculiar stage. I would say it's probably one
15 of the biggest positions for the next 5,
16 10 years, over for all -- so it's not
17 surprising to see more disagreement, but
18 again, the broad picture is very similar.

19 MR. MEIER: Questions?

20 MR. BERMAN: Moving towards fixed
21 income. Thank you. Again probably similar
22 messaging. You can see that Rocaton came
23 somewhat close to the beginning of the range.
24 US Equities follows the asset clause, which is
25 smaller dispersion, which is not surprising

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2 given the uncertainty around inflation, and
3 probably the only chart -- on this page is
4 high yield. In chart number 3, performance
5 and --

6 And first of all, obviously the NEPC is
7 higher than other asset classes, which is not
8 surprising. Rocatton is falling at the lower
9 end of the range. But also you see both the
10 current and risk assumptions become lower,
11 which is consistent. Right, so when it comes
12 to asset allocation compared to Sharpe
13 ratio -- it's not really as much as an outlier
14 as it seems to give on this page.

15 And moving on to the private, the
16 alternatives. First of all, private equity.
17 Obviously it's an interesting asset class.
18 When I say interesting, we not really have
19 that much of history, right? Obviously we
20 have more than hundred years for public and US
21 equity. Private equity probably came on its
22 own, really after global financial crisis. So
23 it's probably just -- a long before that? But
24 this scale indicates private equity really
25 probably after 2008, so we don't really have

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2 that much of history to fall upon. But you
3 can see that the practically speaking all
4 consultants, it's roughly about 9.7 percent.
5 So it's about a three percent liquidity
6 premium.

7 Rocatton came slightly higher on the
8 return assumption. It's probably more
9 important on the risk of volatility of
10 assumptions. You can see that Rocatton was
11 slightly below. So what it means is when you
12 go through asset allocation, the optimizer
13 will naturally favor private equity slightly
14 more -- slightly higher than asset allocation.
15 The same is true about private infrastructure.
16 No big takeaway. Hedge fund is here just as a
17 point of comparison. Clearly you do not have
18 asset allocation in hedge funds.

19 MR. GIORDANO: I just had an information
20 question. In terms of volatility in private
21 markets, how is that calculated by --
22 understand public markets in terms of
23 volatility; is the assumption that's given the
24 markup, like what's realized ultimately? How
25 does that work, just from an information

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2 standpoint?

3 MR. BERMAN: So we had a number of
4 interesting discussions when we brought
5 specialist consultants with the general
6 consultants, and I think there was more
7 alignment in terms of returns, even though you
8 will see on the next page, especially you will
9 see a little bit more up to -- on the risk
10 side, specialist has taken in terms of
11 volatility, but then keep in mind, the
12 specialists do not have the asset
13 allocation -- so they shield the asset clause
14 in isolation, where I would say all five
15 general consultants showed a slightly
16 different term. With this in mind, I'll pass
17 it to Mike to talk about specific methodology
18 of Rocaton.

19 MR. FULVIO: So we're -- our numbers are
20 definitely a little bit of an outlier, and
21 just over 21 percent in a volatility
22 standpoint, but we are thinking about it more
23 in terms of, I think, the other consultants
24 are usually a little higher, thinking of it
25 more along the lines of if you were actually

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2 marking all of those assets to the same
3 changes or fluctuations, if you will, in
4 public markets, maybe just not to the same
5 extent, around the same consideration more
6 broadly as it relates to leverage, and to just
7 sort of the fees you carried in getting
8 incorporated in our assumptions more broadly
9 for public markets -- excuse me -- for private
10 market.

11 But when we think of our private market
12 assumptions in general, I think what we found,
13 which has led to us being a bit of an outlier
14 is rather than just assuming in our private
15 equity modelling that you're going out and
16 you're getting sort of the average return
17 across all offerings in the private equity
18 marketplace, we're actually making the
19 assumption that if you're going to take the
20 decision or make the decision to invest in
21 private equity, we are probably applying a
22 pretty rigorous process to identifying those
23 GPs that tend to outperform. You're not going
24 to do that by the way when you're say you
25 don't invest in private equity, and rather

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2 than just ascribing to a sort of average level
3 of return and volatility, we are saying you're
4 going to get compensated a little bit better

5 for a longer rigorous process in achieving
6 more than the fortieth percentile outcome, for
7 example. And so you'll be better compensated
8 for that tracking error. We're not implying
9 the same amount of market volatility that the
10 other consultants have.

11 MR. GIORDANO: I've never seen
12 volatility expressed in this way --

13 MR. MEIER: If I heard the question,
14 you're asking how -- so it's marked to model.
15 It's not marked -- you're right, we don't have
16 the option of observable outcomes on a
17 quarterly basis, and it's usually done with a
18 one quarter lag.

19 MR. GIORDANO: So it's fixed --

20 MR. BERMAN: When we think about
21 volatility and private assets, so
22 fundamentally, it's still equitable. So they
23 clearly they -- it's a different investment
24 process how private equity works ways to
25 control companies, but over the long term,

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2 there needs to be -- conversion for public
3 market, private market and there is also no
4 element of leverage that is in private equity.

5 So the common approach to establish
6 relate private equity is start with public
7 markets, you apply some leverage, you apply
8 some adjustments for a different process, so
9 if public markets run in about 15 to
10 20 percent range volatility, you base that
11 volatility for private equity, given it's
12 leveraged nature of the asset class to be
13 between 20 to 25 percent, and that's exactly
14 where this is.

15 MR. FULVIO: I would say that the fact
16 that our expected volatility of private equity
17 is a standout to the lower end is consistent
18 with the fact that our public equity
19 volatility is also a little skewed to the
20 lower end. Again we're applying that leverage
21 factor to the -- so it's not surprising that
22 we consistently are shifted a little bit.

23 MR. GIORDANO: It makes sense. Thank
24 you.

25 MR. MEIER: What I think is unique about

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2 Rocaton's approach, as Mike just described, if
3 you look at the top 40 percentile in private
4 equity, and some of them we can say, you know,
5 we're got strong capability -- we're
6 investment managers selected within the Bureau

7 of Asset Management, but we also leverage
8 through size, the collective size of the five
9 plans, which is big enough on our own to get
10 better assets and better economics. So we get
11 through that process of the size -- when we
12 negotiate down guarantees. Also Mike and his
13 team do a number of things around is -- that
14 really average down the expenses.

15 MR. FULVIO: The last thing I'll add is
16 private equity is one of the few asset classes
17 where we do tend to see persistence in the
18 value add that equity managers had, where on
19 the public side it's very challenging to find.

20 MR. BERMAN: So we will go to the next
21 page. Let's just finish this. And next page,
22 please. So here we make the assumptions of
23 the specialists, and just to mention before,
24 it comes to no huge surprise to everyone that
25 generally speaking specialty, the returns in

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2 the market is fixed returns, the material is
3 higher, and this -- the risk is materially
4 lower.

5 MR. MEIER: So those volatility number
6 are actually observed volatilities as opposed
7 to --

8 MR. BERMAN: It varies. You can see on
9 the bottom of the page. Hamilton Lane makes
10 an adjustment risk -- equation. They still
11 come at the lower end. StepStone is usually
12 just the risk volatility, and you can clearly
13 see how much lower it is. So 10.7 percent is
14 seeking from the -- of public market.

15 And just to finish the second set of
16 alternatives. We will go to the next page,
17 please. Thank you. Private -- again the same
18 theme as I keep mentioning about high yield,
19 obviously it's pretty equivalent. Fairly
20 small market dispersion. All consultants
21 obviously assume a liquidity premium for the
22 asset class. Core real estate is where you
23 see probably more dispersion, and it's not
24 surprising. We just talked before about how
25 accelerated the performance was for core fixed

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2 income. Probably is a big -- universe going
3 forward. How much, nobody knows. So you see
4 some dispersion. The only standout is
5 really -- it's not for us to discuss today.

6 And finally, the same exercise in the
7 next page will be the specialists into the
8 picture. The same messaging. The returns

9 assumptions are materially higher, maybe not
10 as much as for private equity and the risk
11 assumptions are materially lower, and again,
12 nothing surprising.

13 So the next page, I just want to spend
14 some time to talk about Sharpe ratio. The
15 Sharpe ratio is the just definition of excess
16 returns of volatility. The reason we talk
17 about Sharpe ratio is because it gives an
18 indication of how optimized and being sought
19 out the asset clause is. So it's probably
20 we'd assume that the high Sharpe ratio is the
21 asset clause, that's not always so.

22 First of all, we need to think about the
23 correlation between the asset clauses, and
24 also keep in mind that we talk about the
25 volatility as a measure of risk. It's

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2 definitely a measure. It's not the measure.
3 It's more complex, and it's something we need
4 to make -- it gives you a good idea of how
5 asset clause --

6 The other thing to keep in mind before
7 we dive into the numbers is the long term
8 Sharpe ratio for the asset clauses, and if you
9 look at the US large cap, and this will
10 probably be the most historical track record.
11 So over a long time US large cap has Sharpe
12 ratio .37, which simply means that for every
13 one percent of volatility, you realize about
14 37 percent of excess return.

15 Maybe somewhat surprising is that that's
16 actually all asset clauses have the same
17 Sharpe ratio, over a long time. So all asset
18 clauses tend to emerge about Sharpe ratio .37,
19 give or take. So it's a useful amount to keep
20 in mind, back of your mind, as we go over
21 these numbers to kind of level set the rest of
22 the numbers.

23 So let's just dive straight into it. I
24 will start with equities, public equity. It's
25 the top row. So first of all, let's look at

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2 the US large cap. So you can see that the
3 average Sharpe ratio across five systems is
4 .19. It's five below the historical average
5 of .37. That's again simply a reflection of
6 extraordinary performance delivered by US
7 equities in the past.

8 So you can see that -- larger dispersion
9 here. But again Rocaton comes, let's say in
10 the middle of the range. Again so we talked

11 before that Rocaton may be a bit of an outlier
12 in terms of three terms, and the risk
13 assumptions. But when we bring it all
14 together, and as I mentioned before, despite
15 the difference in methodologies, it stayed
16 about the same. You can see that for US large
17 caps, Rocaton comes stays close to the middle
18 of the range.

19 US TIPS, chart number four, is an
20 interesting asset clause. If you recall a few
21 minutes ago, I mentioned how little dispersion
22 there was for the TIPS. The return
23 assumptions and the risk assumptions were very
24 similar across all five systems. Yet here we
25 are, we see a larger dispersion across for any

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2 asset clause, and the answer simply is the
3 cash assumptions. Just remember Sharpe ratio
4 is formulating excess return, excess cash, and
5 you can see the way the Callan .24; the
6 Wilshire is almost negative, but again Rocaton
7 is somewhere in the middle.

8 And finally, I'll give you this core
9 fixed income is not a huge takeaway for
10 Rocaton, of course in the middle of the range.
11 High yield again, going with my theme of how
12 predictable this asset clause is, you can see
13 it's probably the least amount of dispersion
14 across five systems. So the Sharpe ratio
15 tends to be on the high end. It's the high
16 Sharpe ratio stage. 26, and I would say
17 across five systems, Rocaton is mostly in the
18 middle of the range.

19 Alternatives, the next page. This
20 orange box, the assumption of specialists, and
21 look at Sharpe ratio one. First one is
22 technical. I will probably go more with
23 general consultants, and again we saw a lot of
24 dispersions, but once you put it all together,
25 things become more similar, right? If

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2 anything, just as Mike mentioned before,
3 Rocaton is somewhat unusual to bring the
4 managers selection to the process. So the
5 Sharpe ratio is on the high end. We're not
6 talking about -- here. It's reasonable, and
7 it's easy to understand.

8 So I'll stop here but just one point I
9 want to mention. We talked about the returns
10 and the risks, essentially the third
11 component, the correlations. That table in
12 the index on -- Rocaton. Much like with the

13 returns on the risks, there is some dispersion
14 of correlation assumption, which is not
15 surprising. It all comes together in the next
16 stage. So we will start talking about the
17 asset allocation, and hopefully around
18 September October we will have an update in
19 the same fashion. So I'll start here with any
20 questions.

21 MR. KAZANSKY: Dave Kazansky. We can go
22 back. I think it's two slides to the Sharpe
23 for TIPS. I just wanted to -- I understand
24 different opinions. Why is Wilshire so down
25 on TIPS? I mean their expectation regarding

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2 inflation is lower than others, but not
3 substantially, so why is there a version of --

4 MR. BERMAN: It's not so much about
5 TIPS, it's about cash. So if I go back to on
6 page 8, you will see chart number 2 gives you
7 the assumptions for cash, and I mentioned
8 before, that's where we see the most of
9 dispersions. So in the relay of the Sharpe
10 ratio cap, they add cash -- minus cash
11 returns. You can see that for Wilshire cash
12 assumption was four percent based on the TIPS.
13 So you have zero -- and the results are
14 predictable.

15 MR. KAZANSKY: Thank you.

16 MR. BERMAN: It's not about TIPS, it's
17 about cash. Any other questions?

18 MR. MEIER: Great. Next presentation.
19 So I'm glad we actually allocated a little bit
20 more time for the strategic asset allocation
21 review. It ran about 45 minutes. I'm going
22 to give you more of a Readers Digest update on
23 just some markets, and what we're seeing, and
24 Mike, Amanda, and Devon have already done a
25 good job talking about where we are in the

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2 first quarter, and then more recently, but
3 I'll kind of walk you through where we are.
4 Kate, can you bring up the slides?

5 Just as a general matter as the slides
6 are being brought up. Inflation continues to
7 still be a challenge both here and abroad.
8 Although the direction we moved down to quite
9 significantly in the US, from a peak of 9.1
10 percent inflation in June of last year. We're
11 just about five percent now. We had a good
12 surprise in Europe today with a lower
13 inflation over at 6.1 percent, and the viewed
14 case is a still little on the high side.

15 What we see on slide three, Kate,
16 please, you can see again, that's just an
17 example of where we are, 4.93 CPI. More
18 importantly though, the core PC inflator,
19 which is the beds for birds measure of
20 inflation. It's done pretty sticky for the
21 last year, just under five percent, and that
22 leads me to believe that the feds is
23 probably -- interest rates high for longer
24 period of time than it had been expected in
25 the market.

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2 On the next slide, similar to the core
3 CPI, you can see it's sticky there around five
4 percent, both year over year and between six
5 months. A little more of a challenge for the
6 fed, I think, going forward.

7 On the next slide, around the world, we
8 see, as I said inflation moving down directly
9 with one little hiccup in the UK on the far
10 right upper hand side of that slide you can
11 see that grey bar. Inflation actually ticked
12 higher from 10.1 to 10.3. Now it's back down
13 to 10.1 percent in the UK. It's still over
14 ten percent. A little more challenge there.

15 Employment on the next slide.
16 Employment in the US has actually been quite
17 robust. We have 253,000 jobs created in
18 April. We are still at a 53-year low in the
19 unemployment rate of just 3.4 percent. 80P
20 numbers came out today. There were hundred
21 thousand above consensus estimates. We get
22 non-forum payrolls from May tomorrow and the
23 expectation is that we will see 195,000 jobs
24 create, and the unemployment rate perhaps tick
25 up a little bit to 3.95 percent, but it's

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2 still very low. In terms of what the feds is
3 trying to achieve is a little bit of a head
4 one for the fed.

5 On the next slide, just another look at
6 that, on the chart, you can see that the
7 participation rate has actually moved up
8 nicely. It's still not close to where it was
9 pre-pandemic or certainly in 2019, but again
10 more people are actually coming into the labor
11 forces.

12 On the next slide, again still we see
13 the levels of the participation rate below
14 2019. The different slide, on the next slide,
15 to look at what the markets are expecting, and
16 what individuals are expecting in terms of the

17 unemployment change. It's associated with a
18 soft landing. So towards the middle of that
19 slide, you can see there is an example of a
20 crash landing at the outset of the pandemic,
21 2020, 2008-2009, where there was a dramatic
22 increase in unemployment. Typically when we
23 go into a recession, you see unemployment on
24 an average of a minimum of two percent. The
25 consensus estimate for 2023 right now is for

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2 to be a moderate increase in inflation and a
3 moderate decrease in real GDP. That's the
4 green, the dark blue is the nominal GDP, and
5 the unemployment rates are on the far right
6 hand side. So that's what the market is
7 currently looking for, and what we will see
8 how that pans out over the coming months and
9 quarters.

10 On the next slide, so look at economic
11 growth. Economic growth in the states
12 actually picked up a little bit. We have seen
13 a resilient consumer. Even the housing has
14 shown some strength recently, and you couple
15 with that a very strong employment market. We
16 have 1.3 percent GDP, revised up from 1.13
17 percent from the first quarter of this year.

18 More importantly, Ed talked about, on
19 the lower left hand side, you can see the
20 reflection of China. The reopening
21 expectations for China couldn't have been
22 higher, and the expectation was for a five and
23 a half to six percent growth. China is
24 actually towed at a five and half percent and
25 then coming in slightly below five percent at

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2 this point.

3 So a little bit more of a headway in
4 China which hasn't been an economic engine for
5 growth, and Europe is hoping to benefit from
6 that. So you see some selloff in European
7 equity prices, as a result of these numbers
8 more recently.

9 Next slide, I don't know if you got
10 great eyes, but on the right hand side you can
11 see where we were pre-pandemic, pandemic, and
12 more recently, and that's just a reflection of
13 the dark blue and the light blue lines are
14 China, and US GDP growth. China, again just
15 under five percent and US just over one
16 percent.

17 On the next slide, something a little
18 different, just a return to work, and still we

19 are in that process. I know people have
20 become accustomed to working remotely, which I
21 think is a good accomodation for many people.
22 But we continue to move back into the office
23 at variant paces around the country. You can
24 see those are some of the larger cities. New
25 York is about in the middle of that mess on

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2 the right hand side.

3 Another slide, looking at the return to
4 work. It looks like the ridership of the San
5 Francisco BART System, their tube system, and
6 New York subway system. You can see that the
7 New York ridership is actually going to about
8 70 percent of where it was using a baseline of
9 2019. A little more sluggish of a return in
10 San Francisco.

11 Next slide, probably near and dear to,
12 at least to my heart, is rentals are still
13 very expensive in Manhattan, a near record
14 high. I think it will probably be good for
15 the economy here.

16 Next page, this is actually a look at
17 expected economic growth, and you can see that
18 the market is expecting or sorry -- this is an
19 equity investment. This was the earnings per
20 share. It's what's expected to be somewhat
21 subdued and negative, so an earnings recession
22 in 2023, which we're still not seeing at this
23 point although we have seen markets down, but
24 outperformance relative to those lower
25 expectations.

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2 And the next slide, a look at interest
3 rates. The fed is either near or perhaps at a
4 pause. Many people are not talking about, and
5 I heard the words this morning about a skip.
6 Ten consecutive interest rate hikes in 2022
7 and 2023. They meet again on the 13th and
8 14th of June, and the expectation is they
9 probably will take a pause, but I think it's
10 very gas dependent. We will see what the
11 employment numbers look like tomorrow, and
12 what inflation looks like before they have
13 their meeting on the 14th.

14 On the next slide, just to look at where
15 we are in terms of financial conditions and
16 rates. On the far right-hand side, you can
17 see that's evidenced of the dramatic ten
18 consecutive interest rate hikes here in the
19 states equal to 500 basis points. The
20 starting point was a range of 0 to 25-basis

21 points, and on the bottom chart, looking at
22 the Goldman Sacks Financial Conditions Index,
23 which was improved somewhat, but still
24 languishing below where it had been
25 pre-pandemic.

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2 Now another look at the next slide at
3 the extent about the recent hikes. Again, on
4 the red, you can see a 500-basis points in
5 increases over a relatively short period of
6 less than a year, in terms of the day count
7 below. It's actually over a year now. It's
8 about 14 months. So that scale is not right,
9 but just an example of how dramatic and how
10 aggressive the Fed's been. Rates where they
11 sit today are at 16, are high. Again, haven't
12 been this high since before the Global
13 Financial Crisis.

14 Let's skip ahead two slides to US Credit
15 Spreads and Treasury Yields. Thanks, Kate.
16 So in fixed income land, we see US Treasury
17 Yields have moved higher. The market more
18 recently has been pricing out the expectation
19 for rate cuts this year. Some of that has to
20 do with the robustness of the economy, and the
21 resiliency of the economy. Also we are
22 managing expectations around to be higher for
23 longer.

24 Today, you got treasury yield pricing at
25 445 versus tens at 365, and we see credit

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2 spreads has been wider. There are about 200
3 basis points wider for high yield than they
4 were, say, premarket sellout last year.

5 On the next slide, just a little note,
6 on the upper left hand of the left hand side
7 of the chart, you can see a little bump up
8 top, that's that red line. It's very hard to
9 see. But it's just an example that the four
10 week treasury bills were paid at a premium to
11 everything else, given concerns about the debt
12 ceiling, and given the good news we've had and
13 the progress we've had since resolving that
14 issue in Washington, that's kind of come off
15 and out of the market.

16 On the right hand side, you can see the
17 treasury two-years and 10-year treasury
18 spreads and -- well, narrowed a bit, they were
19 a bit wider, over 110 ten basis points earlier
20 this year. They're now in about 80 basis
21 points. This was like 71, but again there has
22 been a lot of more volatility, and fixed

23 income than there has been in equity recently.
24 That's evidenced on that slide.

25 Let me skip ahead, Kate, just for the
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2 sake of expediency. Look at credit spreads on
3 slide 23. As I said, the spreads have widened
4 they're a little over hundred basis points,
5 according to this chart. High yields of 484
6 and investment grade credits at 146.

7 Actually this morning they were at 138
8 investment grade, and just 460 for high
9 yields. So credit spreads have been passing
10 around a little bit, given expectations of the
11 potential for a pet pause, good news coming
12 out of Washington recently.

13 Skip ahead a couple of slides to the US
14 dollar slide, Kate, slide 25. The dollar's
15 weakened in the earlier part of the year, and
16 it has strengthened more recently. That has
17 to do with the fact that the US economy has
18 been performing more resilient than those in
19 Europe and the U.K. and I don't know if you
20 read, but recently Germany moved to a
21 technical recession, and the US continues to
22 see relatively robust growth on a relative
23 basis, relative to the amount that has been
24 done for the first part of the year.

25 Kate, maybe move ahead to the US Stock
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2 and Bonds Market Returns. So to give you a
3 little bit of backdrop where we are
4 economically, and let's talk about what we're
5 really seeing in the markets. Investors have
6 been buying fixed income given high yields
7 credit spreads. We also see that the debt
8 ceiling has been resolved, but the lower left
9 hand side headline there, don't expect markets
10 to rejoice if a deal is reached on the debt
11 ceiling. So we've actually gone into what the
12 treasury refers to as extraordinary measures
13 beginning in January, when we hit the 31.34
14 trillion debt ceiling.

15 As a result of that, they've actually
16 worked down their balance. Typically, the
17 treasury's general account at the federal
18 reserve bank is about \$600 to \$700 billion in
19 size. It's a little under \$40 billion today,
20 so what will happen is once they suspend the
21 debt ceiling, the treasury has a lot of issues
22 to do upwards of a trillion
23 dollars liquidation, which is mostly in
24 t-bills to the end of three-quarters to the

25 end of September, and that has a tendency, a
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2 potential to distort markets to driving
3 treasury yields higher, t-bills up
4 dramatically, the cost of leverage financing
5 for hedge funds up which can create challenges
6 for credit spreads product, as well as
7 equities.

8 So it's also going to increase the
9 amount of money potentially the bank has to
10 pay for deposits, and I've got an interesting
11 slide on that in a couple of slides.

12 On the next slide is a year-to-year date
13 equity returns. You can see on the far right
14 hand side there is lot of green on the screen.
15 The NASDAQ is up, as of two days ago, almost
16 up 25 percent year-to-date. Obviously tech
17 has done well. That's really an AI story, and
18 it's very concentrated among a very small
19 handful of companies. So it's not an even,
20 and balanced and broad based rally.

21 I say more importantly if you look at
22 the middle of that screen, under EMEA, those
23 are the European markets. They have actually
24 performed quite nicely coming with the
25 challenges in 2022 and a lot of that has to do

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2 with expectations around China's growth and
3 the exporting to China, which has panned out
4 to some extent, but not to the extent --

5 MR. GIORDANO: What's the difference
6 between the last two columns?

7 MR. MEIER: Well, it's year-to-date and
8 it's year-to-date in the currency. So in the
9 US they are identical. And in Europe it's in
10 Euro denominator.

11 MR. GIORDANO: I see.

12 MR. MEIER: That's a great question. So
13 if you look at the footsie, year-to-date, its
14 only up about 94 basis points. But because
15 the currency had appreciated relative to the
16 dollar, it's at 352, 3.52 percent return.
17 Although the dollar is actually strengthened
18 relative to the pass of the -- recent.

19 On the next slide, a look at bond
20 markets, with year-to-date -- on the right
21 hand side, you can see the US treasury moved
22 down from the yield side 18 basis points.

23 I would say the biggest takeaway there
24 is that almost all manner of sovereign
25 ten-year debt is lower in yield, higher in

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2 price, with the one exception being the UK,
3 given the stubbornness of inflation there, the
4 fact that there is more -- to come, that yield
5 has actually moved up 58 basis points.

6 In the next slide, so looking at
7 volatility. On the left hand side you can see
8 equity market volatility measured by the VIX,
9 fairly subdued, in fact surprisingly so, given
10 the concerns around the potential for a bad
11 outcome with the debt ceiling. More
12 importantly, on the far right hand side of
13 that right hand chart, you can see that the
14 volatility in US Treasury is persisted as by
15 the moving it.

16 Jumping up ahead two slides. This is
17 actually a look at the year-to-date
18 performance, where it's a ten-year slide, but
19 more importantly, we're focused on large cap
20 versus small cap. Small cap measured by the
21 Russell 2000 in red. That's actually really
22 kind of moved sideways to down a little bit.
23 More importantly, the Russel 1,000, which is a
24 index of large cap stocks in green, is
25 actually quite a strong performance. Again,

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2 that's on a broad based rally, that's highly
3 concentrated among a small number of
4 companies, but a fairly good outcome
5 nonetheless.

6 If you skip ahead two slides to recent
7 news, Kate. I do want to talk about some of
8 the challenges we have seen in regional banks.
9 I'd say the regional bank construction right
10 now is relatively calm. I do think the
11 conditions persist in terms of, you know,
12 higher rates and embedded losses in their long
13 portfolios. Treasury holdings and mortgage
14 loans, in particular, and as rates move
15 higher, there is more competition for the
16 banks to have to pay up to secure deposits.
17 Right now you can invest in treasury bills
18 over five percent, that's short, versus, you
19 know, the average basis point return for bank
20 deposits. TIPs is about 45 basis points. So
21 the interest rate differential is driving a
22 lot of investors to move out of their banks,
23 and into money market mutual funds, as well as
24 treasury bills.

25 If you move ahead, actually two slides,

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2 Kate, and this is just an example of what I

3 was talking about. You can see how
4 dramatically higher fed funds target rate is
5 on the far right hand side in green. The two
6 lines that really converge at the bottom, the
7 yellow and the blue, actually the national
8 average interest rates for savings account and
9 the national average interest rates for
10 checking accounts, and again, it's on this
11 slide, it actually reflects below one half of
12 one percent and again, that's the challenges
13 that some of the banks have right now is that
14 these embedded losses went into their
15 portfolios, and they need to pay up for
16 deposits, money moves out of bank deposits,
17 and into money market mutual funds, and
18 treasury bills for significant yield equities
19 have picked up.

20 So I do think that the banking system,
21 although it's calm now, I think it still has a
22 potential to come under more pressure because
23 the conditions that were evident in March,
24 April, and early May continue to persist, and
25 perhaps get worse with the amount of treasury

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2 billages we're about to see.

3 If you move to performance now. Kate,
4 you can pull ahead a couple of slides. 39.
5 The public markets returns for the calendar
6 year. First quarter, you can see at the
7 middle of the page it's all green, which is
8 nice to see.

9 Although that hasn't really persisted
10 through the second quarter, but it's just an
11 evidence of a recovery in asset prices in
12 public markets for the first quarter of the
13 year.

14 On the next slide is a look at the
15 Teachers' Retirement System debt public market
16 returns. Those are percentages for three
17 months. So, for example, at the top, US
18 equities return, 7.4 percent, for that one
19 quarter, and you can see it's green across the
20 board. Still challenged in the one year
21 space, because of the dramatic selloff we saw
22 in 2022. But again it's good to see that
23 there has been an improvement in asset crisis
24 on the public side anyway, and I think it's
25 certainly, as a long term investor, you're

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2 more inclined to focus on five-year returns.

3 So on the far right hand side, you can see
4 that it's mostly all green, except for

5 emerging markets and equity, so it's a pretty
6 good outcome.

7 On the next slide, a look at net private
8 markets by manager. You can see the one year
9 returns in percentages for one year, private
10 equity has delivered a negative 3.8 percent
11 return, and you can see that the other returns
12 are "positive", private real estate core,
13 private real estate non-core, infrastructure
14 and opportunistic fixed.

15 More importantly, on the bottom of that
16 page you can see the aggregate performance for
17 the Teachers' Retirement System plan. It's up
18 4.8 percent. It's right on top of where
19 policy returns are, 4.8 percent. Still
20 negative in the one year space, but positive
21 in three to five years. So it's a good
22 development.

23 I think the other takeaway from the
24 bottom part of the slide is the public market
25 equivalent 65/35 portfolio, we are looking at

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2 a mix of public stocks and bonds is up six
3 percent, but we have exposure to private
4 markets, are marked with a lag. They are
5 tracking a little bit performance very
6 recently. That's what you see on the screen,
7 and on the next slide is a quick example of
8 the consistency. We're right on top of where
9 the policy returns are, 4.8 percent, and on
10 the other following slide, a look at the
11 public market excess returns in bases points,
12 and what I think what you will find striking,
13 they're all positive, they are all green, and
14 some are quite positive for the three-month
15 section, the excess return.

16 But overall the portfolio has still
17 delivered a negative eight basis points
18 relative to the policy benchmark. The 4.84
19 quarter was a rapid, so it's eight basis
20 points, so it's rapid down, so it looks like
21 it's equivalent. But there is a little bit of
22 a drag. Most of that is due to the private
23 asset marked to markets, which are due
24 December 31st. So still a good outcome, I
25 think over time.

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2 And on the next slide, we look at the
3 excess returns in one year for the private
4 assets. So still not withstanding my comments
5 earlier about the drag, potential drag on
6 performance in private equity is delivered,

7 relative to its benchmark of Russel 3000, for
8 the full year. It's still up 1452 basis
9 points. It shows a strong outperformance
10 relative to that public market broad benchmark
11 of Russel 3000.

12 On the next slide, just to look at the
13 summary of the rebalancing activities done for
14 the first quarter. Again here we are really
15 rebalancing raise cash to meet benefit payment
16 in capital calls. You can see that on the far
17 right hand side, raising \$340 million and John
18 Mercer would have gone through a rebalancing
19 the large cap, and large mid cap equities in
20 investing in the emerging managing program --
21 you can see that's evidenced by the 225
22 investments on the far right hand side.

23 With that, I'll open up to any
24 questions.

25 MR. BROWN: Any questions for Steve?

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2 We will move into BlackRock. Is
3 BlackRock in the house?

4 MS. REILLY: They are due at 11:30.

5 MR. BROWN: Why don't we take a break?
6 It's 11:24 now. We will be back at let's say
7 11:35.

8 (Recess taken.)

9 MR. BROWN: This is the order of the
10 agenda, since BlackRock is not here yet, what
11 we will do is go out into public, and into
12 executive to do Westwood, and then if
13 BlackRock is back, we will go back into
14 public. So can I hear a motion to go into
15 executive session?

16 MR. KAZANSKY: So moved.

17 MR. BROWN: Is there a second?

18 MS. LEE: Second.

19 MR. BROWN: All those in favor say aye.

20 MR. KAZANSKY: Aye.

21 DR. GREEN: I'm here.

22 MR. BROWN: All those in favor say aye.
23 Aye.

24 MR. BROWN: All those opposed say nay?

25 We are in executive session. Let us

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2 know when we can proceed.

3 MR. BROWN: Any opposed say nay.

4 We are back in public session.

5 MS. REILLY: Can you give us your names?

6 MR. BROWN: Welcome to TRS.

7 MR. KAWALLER: Absolutely. I appreciate
8 it. My name is Jeremy Kawaller. I look after

9 the New York City relationship at BlackRock.
10 We're very pleased to be here, and we thank
11 everyone here for the continued partnership
12 among our two organizations. I'm here with
13 Jessica Tan. Jessica is the head of
14 Sustainable and Transition Solutions.

15 Jessica is responsible for leading
16 BlackRock's sustainability in transition
17 strategy. She will discuss trends we're
18 seeing in transition investing and policy
19 landscape. Can you actually advance to the
20 next slide, which has the agenda. Thank you.
21 Also here with me is Pravin Chari. Pravin is
22 the global client lead for Aladdin's
23 sustainability. So Pravin will provide an
24 update on our climate analytics framework.
25 We're also joined on Zoom, I believe, by my

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2 colleagues, Jess Wang, Shunondu Basu, and
3 Matt Batizi. I'm going to turn it over to
4 Jessica.

5 MS. TAN: Thank you everyone for having
6 us here today, and thank you for being just
7 great partners for us. I'm delighted to be
8 talking about a few trends that we're seeing
9 in transition investing. So first, a
10 transition to a lower carbon economy is the
11 one of the key forces that our clients are
12 dealing with in terms of their portfolios and
13 investment decisions. We see this as one of
14 the omega forces, changing companies, supply
15 chains, and it's going to be effecting how we
16 invest over the next couple of years.

17 So it's our job as fiduciaries to study
18 that trend, just like we do anything, whether
19 that's inflation or geopolitical risk, and so
20 when we talk about transition investing, we
21 see three forces that are really powering the
22 transition: Technology, consumer preference,
23 and policy.

24 I'm going to be speaking about each of
25 these very briefly, and also I think it's

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2 important to note that these three really
3 reenforce each other, and eventually once one
4 picks up steam, it ends up being a little bit
5 of a flywheel effect.

6 So technology. So technology you can
7 see itself play out through a lot of different
8 ways, right? As technology advances, it
9 lowers the costs of a lot of options that are
10 out there. So the stats on this page is 85

11 percent reduction in solar costs over the past
12 decade, which, you know, if you think about
13 that, that's really huge, and the costs are
14 really coming down quickly across all other
15 types of technology as well, meaning wind,
16 battery storage, as a few examples.

17 So in some of these cases, these newer
18 renewable technologies are even cheaper than
19 some incumbent solutions, and in some cases
20 are very much cheaper, and so through time
21 then they replace incumbents. The second one
22 here would be consumer preferences so the stat
23 we have on the page here is, you know, in 2021
24 we saw a 2x increase in global annual sales of
25 electric vehicles; in China sales tripled. So

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2 again it's just something that is increasing
3 the demand of this overall trend.

4 Another thing for New York right here, I
5 read recently in a New York Magazine and New
6 York Times, a huge uptake in induction stoves,
7 as an alternative to gas stoves, so even
8 though that's hard to do in a place like New
9 York City, consumers are still doing it.

10 The third piece here is policy, and
11 this, you know, has really been a huge force
12 in driving capital into the overall transition
13 investing space. So policy directly effects
14 costs through subsidies and taxes and also
15 indirectly through regulatory standards.

16 So I find policy interestingly in a lot
17 of the developed markets. It's really
18 intersecting with industrial policy. So we've
19 been able to see that through the Inflation
20 Reduction Act in the US. There is also the
21 CHIPS act, the JOBS Act, which plans to
22 invest, you know, close to 500 billion over
23 the next couple of years, into transition
24 investing, and also in Europe, similarly,
25 there is a green deal industrial plan, and all

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2 of these serve to kind of push down the cost
3 of a lot of these technologies, and again
4 these three factors really reenforce each
5 other.

6 So, you know, we have talked a lot of
7 forces that are driving the transition. Of
8 course, there could also be Monoclex, that we
9 have to study. Also what if the policies
10 potentially stop. A lot of people say maybe
11 at the end of the decade, it will close or
12 stop, so that's something we really have to

13 study as fiduciaries, because that could
14 effect investment decisions.
15 Obviously energy security, reliability,
16 is a big topic, supply chains, you know,
17 overall trade protectionism. These are all
18 things that intercept with this important
19 topic, and so all things we have keep an eye
20 on, and how it relates to investment
21 decisions, and nobody knows.
22 So let's go to the next slide. So given
23 all of that, what are we hearing from our
24 clients. What are our client interested in?
25 So what I would say is the transition to low

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2 carbon economy is one of several major forces
3 shaping portfolios in investing, and clients
4 over the last few years I think has become a
5 lot more sophisticated in what they actually
6 want to do with this space.
7 One, the data is more standardized, more
8 reliable, and there has been more regulation
9 in place. So there are a lot of clients who
10 really want to look at this data from a risk
11 management perspective, you know, we look at
12 sustainable and transition information as we
13 do all information. Some are really relevant
14 for certain portfolio strategies, depending on
15 time horizon, investment objective, asset
16 class, and some might be less so. But that's
17 up to investors to ultimately decide and work
18 with our clients on.
19 MS. HIRSH: Sorry, you say within
20 sustainability transition is the number one
21 issue, so where is it sort of in a broader,
22 like as when you talk to clients, maybe minus
23 like the right wing, like, you know, or even
24 them, like the conversation beyond a purely
25 sustainable investing?

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2 MS. TAN: That's a great question. It
3 depends on how you define planned
4 conversations. So for big long term
5 structural trends, I'd say we see four mega
6 forces that clients are really interested in
7 understanding. So transition investments is
8 one of them. The other one that we see is AI
9 digitalization, you know, demographics, and
10 geopolitical risks. So those are the big
11 thematics that I think are long term endured
12 in the portfolios, and even within that, I
13 would say transition, you know, it's hard to
14 rank, but it's probably near the top of that,

15 depending on the client, and then other things
16 that are more market specific, like inflation.
17 It's hard to get away from that, for sure, so
18 I would say that's probably more of a
19 discussion than transition by itself, although
20 the two are linked. But yes, that's kind of
21 what we hear.

22 So, you know, a lot of clients look at
23 this from a risk management perspective.
24 Others are really focused from an investment
25 opportunity perspective, and the two are not

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2 mutually exclusive. Some clients really want
3 to use these themes as a way to generate
4 alpha, you know. Some really think there is a
5 broader secular trade for tilts. I mean these
6 are really valid, you know, investment
7 strategies.

8 The other thing is we have a lot of
9 clients who are executing on commitments.
10 They might have a zero commitment at some
11 place, and we want to work very closely with
12 our clients to help them partner to get the
13 best strategy that fits their individual
14 needs, and so clients look at this in a lot of
15 different ways, and again, the trends that we
16 have seen over the years, our clients are
17 getting more specific and more nuanced. There
18 are certain clients who only want to invest in
19 things that are green today, the highest bar
20 and highest standard, and we work with clients
21 in that.

22 Others want to invest specifically in
23 higher emitters today, because they want to
24 see their dollars at work, or increase or
25 impact in lowering emissions. Of course, it's

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2 not all blanket high emitters, it's those high
3 emitters in the most credible transition
4 strategies. The ones who might be priced at a
5 certain level, or there might be opportunities
6 to put those dollars and actually measure
7 them.

8 It's hard to kind of categorize what we
9 see from plan to possible work. We try to do
10 it regionally, of course there is a lot of
11 nuance on this. In Europe, which might be the
12 region with the greatest interests in this,
13 you know, we do have a lot of asset owners who
14 have specific and zero commitment by different
15 degrees or different dates, I should say,
16 different pathways that they want to follow.

17 So that's something that, you know, we work
18 with them closely. In America, there are more
19 emerging views. There are certain clients who
20 want to integrate certain sustainability
21 factors, and really want to lean into it more,
22 and other ones who want to minimize that, and
23 to be honest, it's very much driven by
24 individual client preferences, and it's
25 sometimes by state by state level as well.

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2 So our role as a fiduciary is to work
3 with clients across the spectrum, no matter if
4 you want to lean in to do these sustainability
5 and transition factors, and increase the
6 weight of that in your portfolios, or whether
7 you want to minimize that. Our goal is to
8 provide that client choice, and within
9 whatever mandates we work with our clients,
10 our role, as fiduciaries, is try to maximize
11 the suggested returns, and to be able to
12 create the best choice and to try to maximize
13 for suggested returns, all of that has to be
14 underpinned by very good research, data, and
15 analytics, and that's where we, and a lot of
16 asset managers are focusing a lot of our time,
17 because over the last couple of years, the
18 data has gotten a lot better, and we've been
19 able to get to that level where we can be more
20 specific to clients about their individual
21 investment needs.

22 In terms of the regulatory perspective,
23 I'll break it down into a few couple of broad
24 food groups. I would say the biggest thing
25 that's making a difference in at least,

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2 investment opportunity is probably the policy
3 that we talked about earlier. Inflation
4 Reduction Act, the Green Industrial Plan in
5 Europe and other countries too that are
6 following up with more industrial policies,
7 because that really does change the cost
8 perspective. It changes how we undermine
9 deals, it changes how we look at the overall
10 our portfolio construction, so-on and
11 so-forth.

12 The second thing on the regulatory
13 horizon, and this is in a bunch of different
14 regions, the regulators are trying to get more
15 specific about anti-green washing regulation,
16 and we think that's a good thing. Right, so
17 even something like the SCC Manual, which is
18 we're expecting guidance on later this year,

19 it's very specific about what plans you can
20 actually call sustainable, right.
21 In Europe, there are similar regulations
22 through SFDR and STR in the UK, so that's a
23 trend that we expect to continue. It's a lot
24 of work for organizations, but you know we're
25 glad that they're standards.

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2 The third thing would be, what I alluded
3 to before so, so it's kind of this very state
4 specific in the US, you know, regulation, on
5 trying to dictate where ESG factors are, what
6 states want to lean into a little bit more,
7 and which choose to minimize. Again, as a
8 fiduciary, it's our job to provide choices
9 across that entire spectrum.

10 MR. KAWALLER: Thank you, Jessica.
11 Pravin, why don't you talk about our
12 analytical framework?

13 MR. CHARI: Absolutely, Jessica. Next
14 slide. So given the transition to the lower
15 carbon economy and to be able to enable
16 investors to understand both the risks and the
17 opportunities from the transition, we need to
18 be able to conduct scenario analysis, given
19 the range of possible outcomes that the
20 transition can really lead to, and that's
21 really where the technology and the data and
22 the analytics really come into play, given the
23 advancements in data, and the policy that we
24 are seeing.

25 So if we look at this slide, and we

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2 start from the left to right, the framework
3 really begins with the industry standards
4 scenarios, from recognizing organizations, for
5 example, the AGSF, which is essentially a
6 group of central banks and supervisors that
7 are promoting the climate risk management into
8 the financial sector, and these are the
9 scenarios that are largely used by
10 organizations to look at the different forms
11 of transition, whether it's an orderly
12 transition to a net zero, or say a disorderly
13 transition to a net zero, and there are other
14 scenarios providers, whether, it's the IPCC
15 scenarios, which is again another industry
16 body that provides these scenarios. But the
17 objective is to be able quantify to how to
18 understand the transition risk, which is, as
19 Jessica indicated, the changes and the risk
20 portfolio, and the opportunity that will be

21 available from policy changes, technological
22 advances, as we transition to the lower carbon
23 economy.

24 If you look at the middle section, once
25 we have these scenarios, it is important to

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2 include sector specific considerations as part
3 of the models, and why that is important, is
4 companies industries operating in different
5 sectors are going to be impacted by transition
6 differently, and that will enable the
7 transition and industrial portfolio in the
8 future.

9 For example, in the automobile industry,
10 we know what other low carbon technology is
11 available, but in many other industries, the
12 technology evolution is still early, and we
13 need to be able to incorporate that as we can
14 analyze the different investments, and have
15 insights that the investors can have.

16 So in order to bring that into the
17 context of the data, the data in this
18 particular space is evolving, the quality
19 of -- and all around the world there is
20 increasing availability of this data, and our
21 goal is to incorporate as it becomes largely
22 available that we can bring into our
23 framework.

24 It is also very important for investors
25 to understand the model methodology, the

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2 assumptions about the data that's going into
3 the model, and also limitations. This is a
4 passable space, you need to understand all
5 those considerations before you incorporating
6 into this process, and that is the foundation
7 of everything that we are doing from an
8 Alladin climate perspective. Again, as a
9 fiduciary, you want to make those insights
10 available to investors based on their
11 considerations, and how they want to interpret
12 that based on their investment objectives.

13 If you go to the next slide, please.
14 Out of an interest of time, I will focus on
15 couple of these areas, which are important
16 from a transition, particularly as we look at
17 corporate. There are segments of the market,
18 we talk about sectors and segmentation, which
19 is the first box on this slide, is essentially
20 how do we capture affirm activities, which are
21 across different subindustries and regions.

22 You can imagine the conglomerate, or you

23 can imagine a company with a diverse setup in
24 these activities, and being able to A,
25 understand and B, being able to address what

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2 those activities, and how that would be
3 impacted by the transition, both again to
4 identify the risks and opportunity is critical
5 to be able to bring it to the insight step,
6 the investors can have.

7 And secondly, the demand impact. The
8 transition is going to lead to demand drivers
9 in different segments that are going to look
10 different. There are going to be companies
11 that are going to be in the transition link
12 sectors, that are going to have a different
13 demand driver, and there will be companies in
14 long term industry sectors that can be
15 impacted indirectly. How do we bring that
16 into again the framework, and provide that
17 transparency on how a particular risk
18 portfolio will do overtime is critical in the
19 transition risk market space.

20 So let me maybe stop there, in the
21 interest of time and back to Jeremy, but I
22 will take questions.

23 MR. KAWALLER: Any other questions for
24 us?

25 MR. KAZANSKY: Dave Kazansky. I have a

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2 question just generally about so when we were
3 discussing our net zero, of, you know,
4 implementation plan, one of the things that I
5 have been reading about recently is a lot of
6 banks removing themselves from the net zero
7 banking alliance, and I just wanted to get
8 your idea of what that means for companies and
9 banks, and, you know, a push towards for net
10 zero, whether that hampers anything.

11 MS. TAN: That's a good question. So I
12 think about the recent news in the insurance
13 sector, so the NVIA, is believe, and from what
14 I understand, I don't know, they wanted to,
15 you know, do that zero their own way. It's
16 not that they're any less committed. They
17 thought being a part of an organization was
18 less helpful to them at this stage in
19 achieving their net zero commitments. From
20 our perspective, we made the decision to join
21 certain organizations, and to be part of the
22 conversation, and you know we regularly
23 evaluate all of partnerships, you know, and I
24 think that each individual organization now

25 has to figure out, you know, where they are in
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2 their own commitment to themselves and their
3 clients and whether being a part of alliance
4 is helpful or not.

5 But from what I understand of those
6 organizations, of course that prevented --
7 that doesn't mean they are any less committed
8 to the overall goal.

9 MR. KAZANSKY: Thank you.

10 MR. KAWALLER: Any other questions.
11 Thank you. Thank you.

12 MR. BROWN: No questions. Thanks
13 Jeremy, Jessica, Pravin, Shonundu, and Matt.

14 I guess we need a motion to go back into
15 executive session.

16 MR. DORSA: So moved. John Dorsa, on
17 Behalf of the Comptroller's Officer. Do I
18 hear a second?

19 MS. LEE: Second.

20 CHAIRMAN BROWN: Thank you. All those
21 in favor to go back into executive session,
22 please say, aye.

23 Aye.

24 MR. BROWN: Those opposed, say nay.

25 DR. GREEN: Aye, Angela Green.

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2 MR. BROWN: Thank you, Dr. Green.

3 We're back in executive session. Thank
4 you, Liz.

5 MR. BROWN: All those opposed say nay.

6 We're back into public.

7 I believe there will be an
8 attorney-client session.

9 MR. SWINGLE: This is Ron Swingle. In
10 executive session of the variable fund, a
11 presentation from an international equity
12 manager, consensus was reached. We provided a
13 list of managers contracts that are up for
14 renewal, a consensus was reached. In
15 executive session of the pension fund, we
16 received preliminary performances data, we
17 received a private equity presentation, and a
18 real estate presentation consensus was reached
19 on both.

20 MR. BROWN: Great. Thank you, Ron.

21 We will have an attorney-client session.
22 We're going to take a break for lunch, and
23 then we have the attorney-client session. Do
24 I hear a motion to adjourn?

25 MR. KAZANSKY: So moved.

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1 Proceedings
2 MR. BROWN: Do I hear a second?
3 MS. LEE: Second.
4 MR. BROWN: Any extensions?
5 Let's do this again. So all those in
6 favor of adjourning this meeting, please say
7 aye.
8 Aye.
9 All those in favor of opposing say nay.
10 Any extensions? We are adjourned. Thank you
11 everyone.
12 [Time noted: 2:01 p.m.]

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1 Proceedings
2 C E R T I F I C A T E
3 STATE OF NEW YORK)
4 : ss.
5 COUNTY OF QUEENS)
6
7 I, RIVKA KAPLAN, a Notary Public
8 within and for the State of New York, do
9 hereby certify that the foregoing record of
10 proceedings is a full and correct
11 transcript of the stenographic notes taken
12 by me therein.
13 IN WITNESS WHEREOF, I have hereunto
14 set my hand this 1st day of June, 2023.

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RIVKA KAPLAN