

MEETING
STATE OF CALIFORNIA
PUBLIC EMPLOYEES' RETIREMENT SYSTEM
BOARD OF ADMINISTRATION
INVESTMENT COMMITTEE
OPEN SESSION

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SACRAMENTO, CALIFORNIA

MONDAY, MAY 14, 2018

9:06 A.M.

JAMES F. PETERS, CSR
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A P P E A R A N C E S

COMMITTEE MEMBERS:

Mr. Henry Jones, Chairperson

Mr. Richard Costigan, Vice Chairperson

Ms. Margaret Brown

Mr. John Chiang, also represented by Mr. Steve Juarez

Mr. Rob Feckner

Mr. Richard Gillihan, also represented by Mr. Danny Brown

Ms. Dana Hollinger

Ms. Priya Mathur

Mr. David Miller

Mr. Ramon Rubalcava

Mr. Bill Slaton

Mr. Theresa Taylor

Ms. Betty Yee

STAFF:

Ms. Marcie Frost, Chief Executive Officer

Mr. Ted Eliopoulos, Chief Investment Officer

Mr. Matt Jacobs, General Counsel

Mr. Eric Baggesen, Managing Investment Director

Ms. Natalie Bickford, Committee Secretary

Ms. Elisabeth Bourqui, Chief Operating Investment Officer

Ms. Kit Crocker, Investment Director

A P P E A R A N C E S

STAFF:

Mr. Alison Li, Investment Manager

Ms. Christine Reese, Investment Manager

ALSO PRESENT:

Mr. Al Darby, Retired Public Employees Association

Mr. Allan Emkin, Wilshire Associates

Mr. Steve Foresti, Wilshire Associates

Mr. David Glickman, Pension Consulting Alliance

Mr. Dane Hutchings, League of California Cities

Mr. Andrew Junkin, Wilshire Associates

Mr. George Linn, Retired Public Employees Association

Mr. Steve McCourt, Meketa

Mr. Tom Toth, Wilshire Associates

Mr. Ben Vernazza, Precision Fiduciary Analytics

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P R O C E E D I N G S

CHAIRPERSON JONES: I would like to call the
Investment Committee meeting to order.

And the first order of business is roll call
please.

COMMITTEE SECRETARY BICKFORD: Henry Jones?

CHAIRPERSON JONES: Here.

COMMITTEE SECRETARY BICKFORD: Richard Costigan?

VICE CHAIRPERSON COSTIGAN: Here.

COMMITTEE SECRETARY BICKFORD: Margaret Brown?

COMMITTEE MEMBER BROWN: Good morning.

COMMITTEE SECRETARY BICKFORD: Good morning.

John Chiang represented by Steve Juarez?

ACTING COMMITTEE MEMBER JUAREZ: I'm here.

COMMITTEE SECRETARY BICKFORD: Rob Feckner?

COMMITTEE MEMBER FECKNER: Good morning.

COMMITTEE SECRETARY BICKFORD: Richard Gillihan
represented by Danny Brown?

ACTING COMMITTEE MEMBER BROWN: Here.

COMMITTEE SECRETARY BICKFORD: Dana Hollinger?

COMMITTEE MEMBER BROWN: Here.

COMMITTEE SECRETARY BICKFORD: Priya Mathur?

COMMITTEE MEMBER MATHUR: Here.

COMMITTEE SECRETARY BICKFORD: David Miller?

COMMITTEE MEMBER MILLER: Here.

1 COMMITTEE SECRETARY BICKFORD: Ramon Rubalcava?

2 COMMITTEE MEMBER RUBALCAVA: Here.

3 COMMITTEE SECRETARY BICKFORD: Bill Slaton?

4 COMMITTEE MEMBER SLATON. Here.

5 COMMITTEE SECRETARY BICKFORD: Theresa Taylor?

6 COMMITTEE MEMBER TAYLOR: Here.

7 COMMITTEE SECRETARY BICKFORD: Betty Yee?

8 COMMITTEE MEMBER YEE: Here.

9 CHAIRPERSON JONES: Okay. The next order of
10 business is the Executive Report. And I think I'm going
11 to call on Marcie.

12 CHIEF EXECUTIVE OFFICER FROST: Good morning,
13 Chair Jones and members of the Committee.

14 We'd like to start the Investment Committee this
15 morning with an announcement. Mr. Eliopoulos, our Chief
16 Investment Officer, has decided that 2018 will be his last
17 year with CalPERS and leading the Investment Office. So I
18 know many of you have had an opportunity to work with him
19 in this role for a number of years; and would also like to
20 express appreciation for his focus, his attention on fee
21 transparency in particular is something I noticed in
22 coming into this role. And also, a focus on the fiduciary
23 duty of watching out for the trusts, the monies that are
24 being entrusted to CalPERS to oversee.

25 So I know it is a bittersweet for Ted. And I'll

1 ask him to go into a little bit of detail about why this
2 is the right time for him.

3 And at this point I'll go ahead and turn it over
4 to Ted.

5 CHIEF INVESTMENT OFFICER ELIOPOULOS: Thank you,
6 Marcie. Thank you, members of the Investment Committee.
7 It is a bittersweet announcement for sure. As many of you
8 know, my older daughter is in New York City and my younger
9 daughter just accept -- was just accepted to her dream
10 school in New York as well. And I think those that know
11 me well, or many of you know well what an amazing young
12 lady she is. But she's -- you know, we have some
13 significant health considerations in particular with
14 respect to her, and my wife and I want to make sure that
15 we give her every bit of support as we can as she makes a
16 transition back east. And we were thrilled for her, and
17 thrilled to be in a position to provide that level of
18 support. And while the decision is tough, I know it's the
19 best one for our family.

20 In addition to that, I just want to say thank you
21 to Marcie, our CEO. We've been able to work together, you
22 know, quite seamlessly and now thinking through this
23 transition, it was very important to her and important to
24 me that we provide lots of time for us to make sure that
25 this transition is seamless and protective of CalPERS.

1 And for that reason, I'm not going anywhere any time soon.
2 I feel like I don't want to be maudlin or spend too much
3 time on this because you'll be seeing me every month for,
4 you know, quite some time, through the end of December.

5 So there'll be plenty of time to -- hopefully
6 for me to express my sincere sere appreciation to all of
7 you individually and as a board for what you do. But it's
8 been a great honor to work for you, work for this system,
9 to work on behalf of our beneficiaries and serve them,
10 the, you know, 1.9 million hard-working Californians that
11 keep all of us, our whole senior team, coming to work
12 every day thinking about how we can provide for them and
13 their families, for the health care that we provide and
14 for the retirement benefits that we provide. It's
15 essential to California families for a sense of security.

16 And I felt that from my own family, both from my
17 parents and down to my daughters, and now I think all of
18 us in the -- that work here feel that in our bones.

19 I'd like to thank our executive team that is in
20 such great, you know, hands going forward. And this
21 incredible investment team that we've put together over
22 decades here. We have over 70 percent of our assets that
23 we manage internally. We have an unparalleled set of
24 partnerships with external managers managing our private
25 assets. And I think it's important for you to know while

1 we have plenty of time to say goodbye, the transition will
2 be seamless and it will be done with the utmost attention
3 to serving CalPERS' interests going forward.

4 So with that, Mr. Chair, that's my comments on
5 that. And I have other comments on the markets and...

6 CHAIRPERSON JONES: Well, thank you, Ted. And,
7 Ted, as disappointed as I am to hear this news, I
8 certainly understand that family comes first. You will be
9 sorely missed here at CalPERS. The Board and the whole
10 CalPERS team are incredibly grateful for all of your hard
11 work over the years. You joined us over a decade ago and
12 have certainly seen the challenges and opportunities that
13 we think that we face up close.

14 Your leadership helped our organization move past
15 the aftermath of the Great Recession and on to better
16 times, including the last years' double digit investment
17 returns.

18 Through it all, your calm demeanor and
19 willingness to listen and embrace new ideas have put us in
20 a strong position for future success.

21 You have left your mark on CalPERS, Ted, and
22 we're grateful for it.

23 I know you will soon be entering another
24 important chapter in your life, and I'm glad that you will
25 be with us to help us with the transition of new

1 leadership in the Investment Office over the next few
2 months.

3 That said, I'm certainly glad I don't have to say
4 goodbye just yet. But what I do want to say right now is
5 that I am grateful that, despite the market's ups and
6 downs over the past few years, your commitment to our
7 mission and to California's public employees and retirees
8 never wavered. I look forward to working with you over
9 the next few months. And, again, thank you very much,
10 Ted. Okay.

11 Let's -- I don't want to clap because --
12 (Laughter.)

13 CHIEF INVESTMENT OFFICER ELIOPOULOS: I'm still
14 here.

15 (Boo, Boo.)

16 CHAIRPERSON JONES: Okay. Ms. Mathur.

17 COMMITTEE MEMBER MATHUR: Thank you.

18 Well, Henry, has so eloquently expressed so many
19 things that I would like to say. But I just really
20 briefly want to say that throughout your career here at
21 CalPERS, even once a delegate deputy serving on this
22 Board, you have always delivered and kept the members at
23 the top of your mind and everything you have done has been
24 to support this organization, its mission, and our --
25 ultimately our members. And I thank you for giving us

1 this breathing room to run an effective search and
2 identify another candidate and to, you know, have your
3 leadership through the upcoming period.

4 So again, you're putting our members first, and I
5 really respect and value that so much. So thanks so much,
6 Ted.

7 CHAIRPERSON JONES: Okay. Thank you.

8 So now we will turn back to you, Mr. CIO.

9 CHIEF INVESTMENT OFFICER ELIOPOULOS: Okay. I'm
10 still here.

11 (Laughter.)

12 CHIEF INVESTMENT OFFICER ELIOPOULOS: Thank you
13 so much, Marcie.

14 Well, I tried to think of an easy transition to
15 these comments - and, Matt, thank you so much for joining
16 me at the dais to my CIO talk - and really want to give a
17 brief snapshot of the markets as we head into the summer.

18 And as you know, we have a very full market
19 analysis and review as well as a performance review in
20 August. But I thought, given -- given some of the
21 volatility and other activities, it would be good to check
22 in a little bit on our views of what's happening around
23 us, around the globe, and in the markets.

24 Having said that, you know, our investment
25 beliefs are focused on the very long term. And as a team,

1 both the Investment COMMITTEE and the Investment staff, we
2 caution ourselves not to get too focused on month-to-month
3 activities. So we try not to have too much of a focus
4 every month on market fluctuations and really try to stay
5 focused on the longer term and particularly the long-term
6 asset allocation of the Fund.

7 Today, in that regard, Agenda Item 5a will be
8 taking up the asset allocation for some very important
9 affiliate funds, and that will occur momentarily in a few
10 minutes.

11 But it's a good reminder that asset allocation is
12 one of the most important things that we do, and the
13 affiliate funds are a very important part of our overall
14 responsibilities, and we want to spend the time and
15 attention to each of those asset allocations as well.

16 So I and the team are very appreciative for
17 carving out the amount of time that we have at the
18 beginning of this year to go through each of the affiliate
19 funds to make sure that it receives the -- they receive
20 the attention that they're due.

21 Now turning to the markets, here's my hook on the
22 transition. It's also a time of transition globally. You
23 know, that actually was the theme of the annual Milken
24 conference that I just came back from and the Chair -- our
25 Chair, Henry Jones, was at. The theme, you know, was it's

1 a time of transition globally.

2 Our summary -- our view of, you know, these
3 transitory or transition forces around the globe:
4 Fundamentally, first, you know, global growth continues to
5 be strong across many geographies, in the U.S., Asia,
6 Europe, and select emerging markets. Particular, I think
7 it's important to note the pick up and growth recently in
8 the U.S. and in Japan.

9 What we're seeing at least in the first half of
10 2018 here in the U.S. is that the U.S. economy could, you
11 know, well deliver, you know, real growth approaching 3
12 percent, which is above the expansion average of about 2
13 and a quarter that we've talked about so much over the
14 course of the last eight, nine years.

15 Certainly one of the global success stories
16 abroad has been the strengthening of the Japanese economy
17 after, you know, such levels of stagnation for decades.

18 And one of the hopeful signs in that economy are
19 the, you know, kicking in of the third-arrow reforms of
20 the Abe -- the administration that are delivering gains.
21 Particularly of note in the first half is a strong gain in
22 female labor force participation, which was one of the
23 goals of Prime Minister Abe's third arrow. So those
24 are -- those are hopeful signs and signs of trending
25 stronger growth and -- in the first half of the year.

1 But, you know, there are some -- there's some
2 other issues on the horizon as well that we're paying
3 attention to, particularly the level of growth in China
4 and Europe. With respect to China, there's been a
5 mini-slowning of Chinese growth recently as they take on,
6 you know, new -- new solidification of their leadership,
7 taking on some of the long-standing structural impediments
8 to their overall economy; and that's showing some signs
9 now.

10 The strength that China has, particularly with
11 the huge reserves that they have, is that they can
12 stimulate their economy if there are any concerns that are
13 coming out of the reforms that they're making. But we're
14 watching that. It's such an important economy.

15 In developed Europe the rate of growth has
16 moderated somewhat in the last two quarters, so we're
17 keeping an eye on that. And little more to come on the
18 political environment there as well.

19 But those are things to -- well worth keeping in
20 mind throughout this summer and for this Board to think
21 about. As we come back in August, those will be important
22 economies to keep our eye on and see how it develops
23 another quarter in.

24 Another important transition point across the
25 globe that we've talked about quite a bit is the removal

1 of quantitative easing across federal reserves and banks
2 across the globe here, in Japan and Europe. That will
3 continue and we'll see what the impact will be over time
4 as a potential countervailing tension to the growth story
5 that we're watching.

6 Certainly tensions in the Middle East have now,
7 you know, come back more into the forefront, particularly
8 with Iran now squarely in focus and the relationship
9 between the United States and Iran and the rest of the
10 globe.

11 In that regard, you know, probably one of the
12 more direct changes we've seen is a sharp move in energy
13 prices over the last year and over the last calendar year.
14 Up 11 percent since January and over 40 percent over year
15 over year. So oil prices are moving. And it's always
16 dangerous to attribute causes to that, but certainly some
17 of this tension in the Middle East is part of it.

18 Nevertheless, with those energy prices moving,
19 inflation still appears to be contained. And this is
20 interesting and of note especially considering the rise of
21 energy prices over this time period. We're going to spend
22 a lot of time and have been spending a lot of time on that
23 very topic, both from a portfolio construction standpoint,
24 but you'll hear a lot more of that in August when our
25 chief economist comes to report.

1 Now, against this backdrop of global transitions
2 and tensions moving back and forth, market asset prices
3 continue to be elevated. But it's worth I think noting
4 over the course of the last couple quarters, the beginning
5 of this year, that equity markets really haven't moved
6 much despite very strong corporate earnings being reported
7 in the past two quarters.

8 So that -- you know, all is -- the to and fro and
9 the tensions between one direction and the other really
10 leads us to think of this transitory moment both in the
11 markets and across the globe and how these forces will
12 interact for asset prices and our investment portfolio
13 over time.

14 For this Committee to think through and watch
15 over the course of the summer as we come back in August,
16 we'll be monitoring and thinking about interest rates and
17 fed actions across the globe, tensions in the Middle East,
18 the Korean peninsula geopolitical situation, trade
19 negotiations that are ongoing between the United States
20 with respect to China and NAFTA.

21 Brexit. I mentioned the Eurozone. But Brexit
22 and the Eurozone will be something to pay particular
23 attention to over the course of the summer into the very
24 early fall as the negotiation process between the UK and
25 Europe continues, and the likelihood of agreement being

1 able to be struck between the European Union countries and
2 the UK are in question.

3 And while we don't see huge impacts to the rest
4 of developed Europe, a very messy or negative outcome in
5 those negotiations could have a, you know, real impact on
6 the progress of the UK. So that will be something to pay
7 much attention to as well.

8 Last, we talked about Japan. There are some
9 political developments to pay attention to over the
10 summer, particularly within the legislature -- legislative
11 body of Japan whether or not there'll be any challenges to
12 Prime Minister Abe's leadership emerging out of that. And
13 certainly with the three-arrow plan of Prime Minister Abe,
14 those will bear real attention and will have impact in the
15 market, so -- if something changes with respect to the
16 leadership in Japan.

17 I think clearly this theme of a world in
18 transition is apt. It's what we've discussed for well
19 over, you know, a year now, and those tensions continue,
20 the forces moving forward and backward are at play.

21 You know, at its conclusion for us today, really
22 the point is our asset allocation is our guide and our
23 benchmarks are our guide. We're well within our -- not
24 only well within our targets and we're very close to our
25 benchmark weights across our portfolio - we've taken some

1 moderate risk off the table - but we're very close to our
2 targets as we head into this summer season and look at the
3 developments across the globe and the positioning of our
4 portfolio.

5 So with that, Mr. Chair, that's my commentary on
6 the markets.

7 And I have one last one last comment before I
8 end.

9 CHAIRPERSON JONES: Okay.

10 CHIEF INVESTMENT OFFICER ELIOPOULOS: I want to
11 make sure to introduce to the Board -- I know you had a
12 chance to meet her just briefly, but for all of our
13 partners and beneficiaries in the audience today, I just
14 want to introduce our new Chief Operating Investment
15 Officer. It is her -- literally her very first day or
16 first morning here at CalPERS. She arrived from Zurich,
17 Switzerland, late Friday night. So even with jet lag and
18 the rest, I'm just so delighted to have Elisabeth Bourqui
19 here. And I was just going to ask Elisabeth to stand up
20 so everyone can see you and -- have a chance to see you.

21 Welcome

22 (Applause.)

23 CHIEF INVESTMENT OFFICER ELIOPOULOS: And with
24 that, Mr. Chair, those are my remarks.

25 CHAIRPERSON JONES: Thank you.

1 I'd like to take a moment to welcome Elisabeth to
2 the INVO team.

3 Elisabeth earned her Ph.D in mathematics in
4 Switzerland and served in a succession of roles in
5 investment banks in Europe, Japan, and Canada. She joins
6 CalPERS from her last position as head of a pension assets
7 and liabilities at ABB, a large public technology company
8 based in Zurich, Switzerland. She speaks French, German,
9 English, and Japanese fluently.

10 We're pleased to be able to welcome her here
11 today on her first day at CalPERS.

12 Welcome, Elisabeth.

13 (Applause.)

14 CHAIRPERSON JONES: Okay. So now we will move to
15 the next item on the agenda, which is consent action
16 items.

17 Do we have a motion?

18 COMMITTEE MEMBER MATHUR: Move approval.

19 CHAIRPERSON JONES: Moved by Ms. Mathur --

20 VICE CHAIRPERSON COSTIGAN: Second.

21 CHAIRPERSON JONES: -- second by Mr. Costigan.

22 Any discussion?

23 Seeing none.

24 All those in favor say aye.

25 (Ayes.)

1 CHAIRPERSON JONES: Opposed?

2 Hearing none.

3 The item passes.

4 I've not been asked to take anything from the
5 information consent item. So we will move to Item 5,
6 Asset Allocation.

7 Mr. Baggesen.

8 (Thereupon an overhead presentation was
9 Presented as follows.)

10 MANAGING INVESTMENT DIRECTOR BAGGESEN: Okay.

11 Good morning. Eric Baggesen, Managing Investment Director
12 for Trust-Level Portfolio Management.

13 This Agenda Item 5a is an action item that
14 continues in the sort of tri-version of all of the
15 affiliate funds and asset-allocation-related material for
16 them.

17 Last month we covered the savings plan. This
18 month we're covering the other defined benefit structures;
19 and the California Employers' Retiree Benefit Trust, the
20 CERBT program, where employers can save money for other
21 post-employment benefits.

22 Next month we'll be covering some of the health
23 plans, including the Long-Term Care Program.

24 Just like last month, the majority of the
25 information will be presented by Christine Reese, an

1 investment manager in our Global Equity team; and Alison
2 Li, an Investment Manager in TLPM.

3 We've also got Steve Foresti immediately to my
4 right. Steve is our representative from Wilshire
5 Associates. And there is an opinion letter from Wilshire
6 Associates attached to this agenda item.

7 And I think without any further ado, we will we
8 will pass this over to Christine.

9 --o0o--

10 INVESTMENT MANAGER REESE: All right. Thank you,
11 Eric.

12 So as Eric mentioned today, we're going to be
13 reviewing four different programs with regard to the asset
14 allocation.

15 And before I get started, I want to acknowledge
16 the collaborative efforts of our colleagues in the
17 Investment Office, the Actuarial Office and the Financial
18 Office. Although you see us presenting here today, this
19 really is a culmination of I across all of those teams in
20 collaboration with each other.

21 --o0o--

22 INVESTMENT MANAGER REESE: And then with regard
23 to the presentation, I'll be covering an overview of
24 characteristics for the programs and a little bit of
25 history. And then Alison will delve into the Strategic

1 Asset Allocation section.

2 So starting on page 5, just a little bit of
3 history. So Legislators and Judges and Judges II are all
4 defined benefit plans. Legislators and Judges began in
5 and around the time of the PERF back in the 1930s, 1940s.

6 Legislators is now closed to new participants.
7 It closed in 2013 with PEPRA. And legislators now have
8 the choice of participating in the PERF.

9 Judges closed in 1994, at which point Judges II
10 opened and effectively replaced that program.

11 And so all of those are defined benefit programs.

12 The CERBT program that we'll also talk about, as
13 Eric mentioned, is an OPEB plan, so other post-employment
14 benefits, primarily retiree health care costs.

15 Now, this program is a little bit different from
16 defined benefit programs in a few important ways. One is
17 that the liabilities for these benefits in the future are
18 retained by the employers, not CalPERS. And for that
19 reason, we've structured the program differently than the
20 defined benefit programs in such that we offered three
21 strategies for the employers to choose from. After they
22 work with their actuary and determine their own situation,
23 they can then choose a strategy option that aligns best
24 with their goals.

25 --o0o--

1 INVESTMENT MANAGER REESE: Looking at page 6,
2 shows the key statistics for the various programs. A
3 couple elements I'd like to point out:

4 Legislators has \$117 million in assets under
5 management, with a total of 250 approximate participants.
6 It's a -- the funded ratio as of June 30, 2017 is 115.9.

7 And Judges with 48 million has 2,000 participants
8 and is only funded at 1.5 percent. That's a pay-as-you-go
9 program. I'll talk about that more on the next page.

10 Judges II has approaching 1.4 billion with almost
11 1700 participants, and had a funding level of 99.3.

12 And then CERBT has a -- is approaching 7 billion.
13 Was begun in 2007. So in the last 11 years it's grown
14 quite dramatically. We do not show the employer or
15 employee contribution rates, as the contributions are
16 voluntary by the employers. There are 524 participating
17 employers. And again, the employers calculate their own
18 funded ratio, so we don't have that reflected here.

19 --o0o--

20 INVESTMENT MANAGER REESE: So a little bit more
21 about the Judges program. This program is a pay-as-you-go
22 program. It has been for quite a while. We do manage 48
23 million -- the 48 million in assets. And the purpose of
24 that 48 million is as a reserve. It's approximately 2 and
25 a half months worth benefits. And should the State be in

1 a position where it's unable to pay, then CalPERS can
2 continue those benefit payments uninterrupted to the
3 beneficiaries.

4 And the primary reason that the State would be
5 unable to pay is if we hit a delay in the budgeting
6 process -- in the annual budgeting process.

7 --o0o--

8 INVESTMENT MANAGER REESE: So moving into more
9 detail on Legislators and Judges and really contrasting
10 the two programs. Looking at page 8, we're showing the
11 assets under management and participants for each of those
12 two programs.

13 The two red lines at the top show that the upward
14 trend for both participants at about 1600 and the assets
15 under management at 1.4 billion. Contrasting to that,
16 Legislators are the two bottom lines, both showing a
17 decline in the assets under management and the
18 participants over time. So that matches with Judges II
19 being a very young, active program, with Legislators being
20 a much more mature and declining program.

21 --o0o--

22 INVESTMENT MANAGER REESE: Looking at page 9, we
23 look at another statistic in terms of the
24 active-to-retired ratio; so the number of active employees
25 to retirees.

1 With LRS being a very mature program, if you look
2 at the table, the very bottom line is 2017. So the ratio
3 for Legislators is 0.03 actives to retirees; Judges II is
4 9.39, which is very healthy. And then as a reference
5 point, we've included the PERF at 1.33. And then the last
6 measurement we have for our Public Pension Peers at 1.42.

7 So another indicator that Legislators is, you
8 know, very mature and Judges is again very young and
9 growing.

10 --o0o--

11 INVESTMENT MANAGER REESE: On page 10, we are
12 looking at forecasted cash flows. And this is an
13 appropriate measurement to include for the CERBT. So as
14 we see on the CERBT graph on the left, forecasted cash
15 flows are moving from a little over a billion up to around
16 two and a half billion within the next five years.

17 Now, again, these are forecasted estimates based
18 on -- based on past history for the CERBT. As I
19 mentioned, it began in 2007 and it's already almost at \$7
20 billion.

21 For Legislators and Judges, Judges is the top red
22 line, it showing -- it's showing that cash flows are
23 declining but slowly, moving from about 130 million down
24 to 100 million. And then Legislators is the bottom blue
25 line, which is essentially flat.

1 And then the last characteristic I'll cover is
2 the asset-to-payroll ratio, which measures the sensitivity
3 of contributions to investment performance. And the
4 higher the ratio, the higher the sensitivity.

5 So if we look at Legislators again in the table,
6 on the bottom on the row -- there we go -- Legislators
7 ratio is 96.71. So very reliant on assets, and investment
8 performance would have a very large impact on the
9 contribution rates.

10 And in contrast to that, Judges II is at 4.65
11 and our reference point for the PERF is 5.98.

12 --o0o--

13 INVESTMENT MANAGER REESE: So, in summary, Judges
14 is pay-as-you-go. Legislators is very mature program.
15 Judges II is very young, can withstand market volatility
16 more than Legislators. And then CERBT has had a lot of
17 growth and we offer the three strategies.

18 And I'll turn it over to Alison at this point and
19 she'll talk about how these characteristics drive the
20 asset allocation decisions.

21 --o0o--

22 INVESTMENT MANAGER LI: Good morning.

23 As we will see, plan characteristics just
24 presented by Christy have significant implication on the
25 strategic asset allocation we'll recommend.

1 So now let's first review the steps involved in
2 obtaining the policy portfolio. The first step in the
3 asset side is forecasting capital market assumptions for
4 years 1 through 10 for strategic asset classes including
5 expected returns, volatility, and correlations. This
6 presents an overview of opportunity sets available to
7 investors.

8 We also set constraints that's going to be used
9 in Step 2 because of concerns such as market capacity and
10 illiquidity.

11 So in the second step there's the mean variance
12 optimization which generates the efficient frontier. The
13 efficient frontier gives you all the efficient portfolios.
14 Those portfolios earn the highest expected return at every
15 level of risk or, to put it differently, they endure the
16 lowest expected risk at every level of return.

17 And the Step 3, staff will identify candidate
18 portfolios on the efficient frontier whose risk return
19 profile might fit with the plan characteristics and there
20 is enough meaningful differences between the candidate
21 portfolios.

22 While these three steps are in progress in the
23 Investment Office, the Actuarial Office forecasting
24 capital market assumptions for year 11 through 60 based on
25 long-term data, and they also project liabilities.

1 The two offices come together in step 4. That's
2 when Investment Office simulate annual returns based on
3 CMAs for years 1 through 10 and those for year 11 through
4 60 respectively. Then the Actuarial Office will project
5 funded ratios and the contributions based on those
6 simulated returns and the projected liabilities.

7 Then in step 5, staff will recommend a policy
8 portfolio based on a consolidated overview of those
9 projections and the plan characteristics.

10 In the final and the sixth step, Investment
11 Office approve policy portfolio based on the foregoing
12 discussion and staff recommendations.

13 --o0o--

14 INVESTMENT MANAGER LI: So as the outcome of the
15 first step on the asset side, the capital market
16 assumptions for years 1 through 10, has a significant
17 implication on the composition of potential policy
18 portfolios. So it has a signi -- directly affect the risk
19 return profile of each fund.

20 The capital market assumptions here are mainly
21 the same as those adopted by the Investment Office back in
22 June 2017 for the PERF ALM process.

23 So the CMAs are mostly the same for assets
24 classes such as Global Equity, Commodities, and U.S.
25 Domestic Fixed Income and the TIPS. The only exception

1 here is REITs, which is not a strategic asset for the
2 PERF. Here we used a dividend discount model to forecast
3 expected returns. The same model is used for the Global
4 Equity in the PERF.

5 We also here put minimum constraints on three
6 inflation-sensitive assets - TIPS, Commodities, and
7 REITs - to force more diversification in their potential
8 policy portfolios.

9 --o0o--

10 INVESTMENT MANAGER LI: So before we look at the
11 candidate portfolios that's identified on the efficient
12 frontier, let's recall how plan characteristics will
13 affect the choice of policy portfolios.

14 The three important -- the three important plan
15 characteristics are fund maturity, cash flows, and
16 assets-to-payroll ratio. Those measures are closely
17 related to each other and they're usually consistent.

18 So a young plan means there are more active
19 members than retired ones. So the benefit payments are --
20 most of the benefit payments are due in the distant future
21 rather than at present. So the duration of liability is
22 long.

23 At the same time, when there is more active
24 members making contributions than retired members drawing
25 benefits, the cash flow will be positive.

1 At the same time, when there is more active
2 members than retired members, that means most of the
3 benefits has not been earned but in the process of being
4 earned. So the size of the assets relative to size of
5 payroll is small. At this stage, even though the plans
6 sustained market drawdown, the increase in contributions
7 because of the market drawdown compared to the payroll is
8 still small. So that means the -- there is low
9 sensitivity to market volatility for a young plan.

10 On the other hand, for all -- for older plans,
11 exactly the opposite. They have -- their liability
12 duration is short; they have cash outflows; and they have
13 high sensitivity to market volatility.

14 --o0o--

15 INVESTMENT MANAGER LI: So here are the candidate
16 portfolios staff identified on the efficient frontier that
17 was generated by the mean variance optimization. So you
18 if you look at the blue line, the expected compound return
19 for year 1 through 10 are based on the CMAs from the
20 Investment Office. The compound expected return from
21 years 11 to 60 are based on the CMAs from the Actuarial
22 Office. The volatilities are the same from year 1 through
23 60 and it's agreed upon by both the Investment and the
24 Actuarial Office.

25 And then we present expected blended returns net

1 of fees, for LRS and JRS II. They are based on the
2 benefit payment structure of these two plans.

3 For CERBT, because we do not know the benefit
4 payment schedule, here we present the expected
5 time-weighted returns. So each participating employer
6 should calc -- would calculate their plan-specific blended
7 return based on their benefit payments schedule; in turn,
8 based on their own actuarial valuation reports.

9 So the last row is staff's recommendation for
10 each affiliate plan.

11 For JRS, a portfolio zero is actually not on the
12 efficient frontier. Our recommendation is to maintain the
13 current strategic asset allocation, which is 100 percent
14 to cash-equivalent securities, because this is a
15 pay-as-you-go plan. For pay as you go, the contribution
16 is only enough to pay current liability, not to fund the
17 future liability. And the amount of asset under
18 management is enough to pay benefits when there's a delay
19 in the annual state budget approval process.

20 So for LRS, staff recommend a conservative plan,
21 P2, because of its characteristics. It has short duration
22 cash outflows and the high sensitivity to market
23 volatility. And this also would allow the Board-approved
24 discount rate of 5 percent to remain unchanged.

25 And for JRS II, on the other hand, staff

1 recommend moderately aggressive plan, P7, because of its
2 characteristics. It's a young plan, it's cash-flow
3 positive, and it has low sensitivity to market volatility.
4 But because the asset -- the active-to-retired ratio and
5 cash flow for JRS II are both decreasing, so staff do not
6 recommend increased risk profile of this plan. So the
7 current Board-approved discount rate of 6.5 percent will
8 remain unchanged.

9 And for CERBT, staff provide three choices, P2,
10 P5, and P8, which are conservative, moderate, and
11 aggressive in their risk return profile respectively.
12 Each participating employer should choose a plan that is
13 consistent with their own risk tolerance and plan
14 characteristics and they will set their own discount rate
15 and contribution rate to fund their liabilities.

16 --o0o--

17 INVESTMENT MANAGER LI: So for JRS II, there are
18 also three risk considerations that informed our
19 recommendation of P7 instead of a P6 and P8. Those three
20 risk considerations are funded ratio, contribution level,
21 and volatility. So they're measured as within any of the
22 years in the future, 30 years, so the funded ratio -- the
23 probability of the funded ratio falls below 50 percent.
24 Or the contribution level exceeds 35 percent or the
25 year-over-year change in contribution ratio exceeds 3

1 percent.

2 So you can see the first measure does not
3 distinguish among the three candidate portfolios.

4 The second measure tells us P6 is more likely to
5 be costlier. So in that -- according to that measure, P7
6 is preferred.

7 Then the third measure says P8 is more likely to
8 introduce disruptive volatility in the contribution rate.
9 So in that case, P7 is again preferred.

10 So those three risk considerations support our
11 recommendation of P7 as the policy portfolio.

12 --o0o--

13 INVESTMENT MANAGER LI: And this graph shows the
14 historical asset allocation for the affiliate funds and
15 also the current recommended policy portfolio. As you can
16 see, there's not significant change in the risk return
17 profile of each fund as we discussed.

18 --o0o--

19 INVESTMENT MANAGER LI: And this page shows the
20 proposed asset class ranges. Those are from the practical
21 knowledge accumulated by our Global Equity team in
22 managing the fund. Those ranges are believed to provide
23 enough flexibility to reduce transaction costs associated
24 with the systematic quarterly rebalancing of those funds.

25 So that concludes my presentation on the

1 recommendation on the strategic asset allocation for each
2 of the affiliate funds.

3 CHAIRPERSON JONES: Okay. Yeah, we have several
4 questions. And thank you for the report. And this is the
5 last of our path of asset allocations.

6 We have one more? Which one is that?

7 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah,
8 that'll be the Health Care Programs, the Health Care
9 Reserve Fund and the Long-Term Care Program next month,
10 Mr. Jones.

11 CHAIRPERSON JONES: Okay. Thank you.

12 Okay. Ms. Mathur.

13 COMMITTEE MEMBER MATHUR: Thank you, Ms. Li and
14 Ms. Reese.

15 As you've noted, the CERBT is a somewhat
16 different animal than the other plans. And one of the
17 things about the CERBT is that an employer could withdraw
18 funds at any time to pay retiree health benefits.

19 What assumptions have you made about the time
20 horizon and sort of how -- when we expect employers to
21 withdraw funds? And does that differ by CERBT 1, 2 and 3?
22 And how does that impact the asset allocation?

23 INVESTMENT MANAGER REESE: So I'll take that
24 question.

25 Yes, the program area within the finance team

1 does look at both historical distributions for retiree
2 health care as well as upcoming projections which they
3 gather from each of the employers.

4 That information has been incorporated into the
5 cash flow estimates that we have presented here.

6 COMMITTEE MEMBER MATHUR: And do we have -- I
7 can't recall, but do we have any restrictions based on
8 which fund it is? If it's a more aggressive fund, which
9 is the higher target rate of return, we expect their
10 assets to be invested over a longer period perhaps. Do we
11 have restrictions on employers of when they can withdraw?

12 INVESTMENT MANAGER REESE: There are no
13 restrictions on either when they can withdraw or which
14 strategy they invest?

15 COMMITTEE MEMBER MATHUR: So if employers
16 withdrew more quickly than we projected, then that would
17 have an impact on the return of those funds?

18 INVESTMENT MANAGER REESE: Potentially.

19 COMMITTEE MEMBER MATHUR: Potentially?

20 INVESTMENT MANAGER REESE: Eric, did you want
21 to --

22 COMMITTEE MEMBER MATHUR: It could potentially.

23 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah, I
24 think -- Eric Baggesen.

25 Just in response to that question. I think

1 that -- basically all these programs invest in what we
2 believe are marketable assets. So that the difference
3 would be basically in just the period of compounding. And
4 you can see that -- could I borrow the clicker, Alison,
5 for a moment.

6 You can see the potential difference in these --
7 in this chart. Because basically you see for identical
8 asset allocation structures, the green, the red, and the
9 purple rows show the different long-term compound return
10 expectations. So, for example, in the LRS program, even
11 if you picked, for example, portfolio P7, that would show
12 approximately a 6.1 percent expected long-run return,
13 whereas in the JRS program the timing of its cash flows
14 actually infer an additional 40 basis points of return.
15 So it's in the compounding effects as to how that would
16 happen. And that's entirely, again, up to the judgment of
17 the employers that choose the different CERBT programs.
18 Hopefully they're basically incorporating those
19 expectations when they actually pick the sleeve that they
20 participate in. But that's up to their judgment.

21 COMMITTEE MEMBER MATHUR: Okay. And do we add --
22 in our own sort of projection of what the returns will be
23 for these funds, do we add any conservative elements of
24 margin for higher-than-expected withdrawals, or is that
25 not really that important?

1 MANAGING INVESTMENT DIRECTOR BAGGESEN: Well,
2 again, you see in the CERBT line on this chart
3 basically -- this is time weighted.

4 COMMITTEE MEMBER MATHUR: Yep.

5 MANAGING INVESTMENT DIRECTOR BAGGESEN: So this
6 is simply -- what we're inferring is that we have no
7 knowledge of when the employers plan to withdraw assets
8 from this. So it's simply a time-weighted rate of return
9 across that time period. So without any real knowledge
10 about what that plan is, it's impossible for us to infer
11 anything in that regard other than to point out this kind
12 of information that -- for example, if you take money out
13 of a plan sooner, it in essence is going to reduce your
14 long-run return basically on that program.

15 So again, that's -- this is the kind of
16 information that we try to bring to the attention of the
17 employers and their actuaries, because they also utilize
18 their own actuarial firms to infer a discount rate for
19 themselves in the utilization of these particular sleeves.

20 COMMITTEE MEMBER MATHUR: Right. So do we share
21 with employers any projections of, let's say, if you
22 withdraw within five years, this is what the return might
23 be; if you withdraw in 10 years, the return would be
24 higher; if you hold it for 30 years, then the return would
25 be higher still? Do we do any of that kind of sort of

1 sensitivity analysis around withdrawals?

2 INVESTMENT MANAGER REESE: We'd have to probably
3 work with the program team to determine if they present
4 that type of information to the employers.

5 COMMITTEE MEMBER MATHUR: Okay. Yeah, I see
6 that's maybe not your side of the world.

7 INVESTMENT MANAGER REESE: Sorry.

8 COMMITTEE MEMBER MATHUR: So that's fine, that's
9 fine. Thank you.

10 I just wonder in this, you know, what --
11 particularly as we've seen contributions go up on the
12 retirement side for employers, if there's going to be more
13 pressure for employers to withdraw earlier than they might
14 have expected on the retiree medical side just to make
15 their budgets work. And I just wonder if more information
16 would be useful to employers as they're making decisions
17 around that.

18 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah, I
19 think -- and Steve Foresti from Wilshire Associates just
20 whispered in my ear an observation that is actually really
21 germane to the point that you're making, Ms. Mathur. And
22 it's the difference between the short-run market
23 expectations, years 1 through 10, versus the longer 11 to
24 60 set of expectations. If you look at these numbers, you
25 literally will see in some cases we have over 200 basis

1 points difference between shorter-run expectations versus
2 longer run.

3 So literally a lot of these blended return
4 numbers are obviously dependent on those long-run
5 expectations that we do not believe are necessarily going
6 to be realized, let's say, over the next 10 years. So
7 that's another cautionary note on exactly the dimension
8 that you're pointing out.

9 We view -- basically when you -- the bigger the
10 gap between those short- and long-run expectations, we
11 consider that almost like a risk factor. It obviously
12 points to the fact that there's a lot of uncertainty and
13 potential disagreement within the marketplace about what
14 will be the realized rates of return over protected time
15 periods. So that kind of uncertainty is another dimension
16 I think that again points to the need for the employers to
17 think about what sleeves they pick, and have that dialogue
18 with their own actuarial firms to really try to understand
19 their own profile. And they could literally -- you could
20 remodel this information basically either based on that
21 short-run sort of expectations or on the long-run sort of
22 expectations. But, you know, that's consideration that
23 they need to build into that.

24 COMMITTEE MEMBER MATHUR: Yeah. Okay.

25 Thank you.

1 CHAIRPERSON JONES: Ms. Yee.

2 COMMITTEE MEMBER YEE: Thank you, Mr. Chairman.

3 I had a couple questions regarding the LRS, and
4 one having to do with the reduction in the treasury
5 inflation-protected securities by 10 percent.

6 Notwithstanding Mr. Eliopoulos' observation that
7 inflation as we see it today is still contained, just
8 wondering if you were -- how confident you are in this
9 allocation given the expected rise in inflation rates.

10 MANAGING INVESTMENT DIRECTOR BAGGESEN: Why don't
11 I take a shot at that one. And maybe what I would do is
12 move into one of the -- I think it's page 22, which starts
13 to get us out into some of the appendix material. And
14 this, Ms. Yee, I believe gets to the point that you're
15 making; that, in essence, what we're saying is, for
16 example -- what we're really doing in this instance is
17 we're shifting exposure from the TIPS program into the
18 Global Fixed Income program. And that's really based on a
19 slightly higher yield to the Global Fixed Income program
20 in contrast to the TIPS yield.

21 The issues that we've identified I think with
22 inflation assets in relation to the PERF also potentially
23 dovetail into these programs. Until we get to a
24 conclusion on what we think is sort of the optimal
25 structure, to the extent that there is such a thing, for

1 inflation assets or the specification of that, we're
2 basically maintaining some degree of diversification by
3 incorporating these, and that's the effect of the
4 constraints that Alison spoke to in the information.

5 We tend to believe though that still having -- I
6 mean, what you have at this point even if you go to the
7 portfolio -- the recommendation, you still have exposures
8 of 16 percent to TIPS, you have exposure of 5 percent to
9 commodities, exposure of 8 percent to REITs.

10 So we think that that's probably an adequate
11 level given the uncertainty that attaches to that.

12 But there's no perfection in this.

13 COMMITTEE MEMBER YEE: Sure.

14 MANAGING INVESTMENT DIRECTOR BAGGESEN: This is
15 also a dance between attempting to maintain
16 diversification and to generate a high enough level of
17 return that it doesn't require a change to the discount
18 rate that's currently being used for this program. And
19 both the LRS and the JRS II programs, trying to maintain
20 that expected rate of return to not require a change to
21 the discount rate, actually requires a slight bump up in
22 the expected volatility of the asset allocation. And
23 that's the tradeoff being driven by the capital market
24 assumptions.

25 COMMITTEE MEMBER YEE: Okay. Good. Thank you.

1 And then I guess speaking of the discount rate,
2 which happens in the LRS at 5.75 I think in 2014 -- is
3 that --

4 INVESTMENT MANAGER LI: It's 5 percent.

5 COMMITTEE MEMBER YEE: It's 5 percent now?

6 INVESTMENT MANAGER LI: Yes.

7 COMMITTEE MEMBER YEE: But it was 5.75.

8 I was just wondering whether there are any
9 impacts with respect to the contribution rates given that
10 change.

11 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah,
12 that's -- I don't know that we have that information. I
13 think we would have to ask the actuaries on that question.

14 COMMITTEE MEMBER YEE: Okay.

15 MANAGING INVESTMENT DIRECTOR BAGGESEN: But we
16 could certainly if you're curious about that I think bring
17 that information back.

18 COMMITTEE MEMBER YEE: Okay.

19 MANAGING INVESTMENT DIRECTOR BAGGESEN: But that
20 discount rate I believe has already been established at 5
21 percent.

22 COMMITTEE MEMBER YEE: 5 percent, yes.

23 MANAGING INVESTMENT DIRECTOR BAGGESEN: So that
24 adjustment in those -- and the impacts of that have
25 already been incorporated into the contribution structures

1 for these programs.

2 COMMITTEE MEMBER YEE: Okay. Got it. Thank you.

3 CHAIRPERSON JONES: Okay. Mr. Juarez.

4 ACTING COMMITTEE MEMBER JUAREZ: Yeah. I just
5 had a question relative to the JRS I, and just to get a
6 better understanding how a pay-as-you-go pension program
7 works. Would you just briefly tell me how the money --
8 what the cash flow dynamics are.

9 INVESTMENT MANAGER REESE: Yes, to the best of my
10 understanding. So on an annual basis, the -- the State
11 budget sets aside an allocation to pay for benefits. I
12 believe it's about \$250 million as part of the -- you
13 know, the General Fund budget. And benefits are paid -- I
14 believe the contributions go into the Treasurer's office
15 and then are paid on a monthly basis out of those funds.
16 Any shortfall in those funds, we -- is another reason why
17 we could potentially tap the reserve; but that hasn't been
18 required.

19 So, the --

20 ACTING COMMITTEE MEMBER JUAREZ: So there's no
21 investment whatsoever? It just goes -- it's an
22 appropriation that goes to pay off --

23 INVESTMENT MANAGER REESE: Correct, correct.

24 ACTING COMMITTEE MEMBER JUAREZ: -- the
25 obligations associated with the people that were

1 originally in the program?

2 INVESTMENT MANAGER REESE: Correct.

3 ACTING COMMITTEE MEMBER JUAREZ: Okay. Thank
4 you.

5 CHAIRPERSON JONES: Mr. Miller.

6 COMMITTEE MEMBER MILLER: Yes, thank you.

7 I had a question -- I'm not sure, I don't have
8 figure numbers, but I think it was page 17, the JRS II
9 candidate portfolio and risk considerations slide. And
10 you may have touched on some of the answers to this
11 responding to Ms. Yee.

12 But I'm wondering why the recommended candidate
13 portfolio with a 5 percent volatility versus the current
14 policy portfolio with 4 percent volatility with the same
15 contribution. Is it related to that balancing of those
16 asset allocations? Or what are the factors that --

17 INVESTMENT MANAGER LI: Sorry. If you are asking
18 for the contribution volatility, that's not the volatility
19 of the fund. It's the volatility in contribution rates.
20 So the -- because of the -- based on the simulated returns
21 and also the projected liabilities, you calculated
22 contribution rate based on the formula of the Actuarial
23 Office. And when there's a volatility in the simulated
24 returns, there will be volatility in the contribution
25 rate. And that change hopefully is not above 3 percent

1 because that will cause difficulty in the agency budget.
2 So we calculate the percentage of times that change is
3 above three percent.

4 COMMITTEE MEMBER MILLER: Right. I guess I'm
5 just wondering what were the factors that would go into
6 recommending that a slightly higher contribution
7 volatility would be warranted with -- we're only seeing
8 this one other factor here. But does that relate back to
9 the more favorable asset allocation considerations or --

10 INVESTMENT MANAGER LI: Yes. Yes, there's -- the
11 risk considerations is only one factor we considered in
12 the strategic asset allocation. This first of all does
13 not consider the -- the annualized return of each
14 portfolio, which will be -- have higher weights in our
15 consideration.

16 So this is just one facet of the outcome of such
17 a strategic asset allocation, which is: What's the
18 percentage of the time that change in the contribution
19 rate will exceed 3 percent? And that's a concern for some
20 of the employers.

21 COMMITTEE MEMBER MILLER: Great. Thank you.
22 That's very helpful.

23 MANAGING INVESTMENT DIRECTOR BAGGESEN: Maybe I
24 could also bring a little more context to your question,
25 Mr. Miller. And again, I would point us out to page, I

1 think this one's 23, which deals with the JRS II
2 portfolio.

3 If you look at the -- if you look at the current
4 portfolio page on that -- let me just get to it -- the
5 assumed rate of return in the current portfolio given the
6 capital market assumptions that have been adopted would be
7 approximately 6.44 percent. That's just marginally under
8 the 6.5 percent discount rate. So literally the slight
9 shift in asset allocation in this instance basically. So
10 it's, in essence, putting a little bit more money into
11 equities, taking a little bit of money out of fixed
12 income. There's about a 2 percent shift in that regard.
13 That's literally to bring that expected rate of return up
14 to the 6.5 percent so that the actuaries can, in essence,
15 maintain that 6.5 percent discount rate.

16 That's the reason for adopting or assimilating or
17 accommodating that little bit higher volatility, which
18 marginally increases the probability that you could get a
19 contribution change above 3 percent, as you point out.

20 COMMITTEE MEMBER MILLER: Thank you.

21 CHAIRPERSON JONES: Ms. Hollinger.

22 COMMITTEE MEMBER HOLLINGER: Yes, thank you very
23 much.

24 Well, first of all, I wanted to thank Ms. Li and
25 Ms. Reese, because you explained something that's very

1 complicated in terms of the different nuances and the
2 different compositions of these portfolios in terms of
3 maturity, duration, et cetera. So thank you.

4 My question is a little bit along the lines of
5 Ms. Mathur. Because in order to get the benefit of
6 compounding, the money's got to sit there. So are we
7 recommending that at least it gets to bake at least 10
8 years or -- because -- or -- I don't know, I'm just
9 confused on that.

10 MANAGING INVESTMENT DIRECTOR BAGGESEN: Let me
11 take a shot at that one.

12 I actually think CalPERS is not necessarily
13 recommending anything. That's a decision that's up to the
14 employers --

15 COMMITTEE MEMBER HOLLINGER: Got it.

16 MANAGING INVESTMENT DIRECTOR BAGGESEN: -- in the
17 discussion with their actuaries.

18 CalPERS has built three portfolios that we think
19 represent reasonable alternatives depending on the
20 conditions that the employers and their actuaries believe
21 that they're in. But it's entirely -- it's like a defined
22 contribution plan, in essence, for the employers. So
23 we're not making any specific recommendation. We're just
24 trying to point out the sensitivity to the data that
25 exactly both you and Ms. Mathur have pointed out in that

1 regard. That should be part of their consideration.

2 COMMITTEE MEMBER HOLLINGER: Right. That should
3 they deviate from that, the numbers would change.

4 And then my other question is, do we ever stress
5 test these in a bad market year?

6 MANAGING INVESTMENT DIRECTOR BAGGESEN: The
7 answer's yes. And I think I'll let Alison speak to that,
8 and the stress test chart.

9 INVESTMENT MANAGER LI: Yes, here's the stress
10 test. So we look at the tech bubble and the great
11 financial crisis. And so the -- this is like, because
12 it's back we're looking, so each time you do a stress test
13 that the portfolio has the highest expected return, the
14 highest volatility will sustain the largest drawdown. But
15 we think in terms of the amount of drawdown, that's still
16 endurable by the responding affiliate plan.

17 COMMITTEE MEMBER HOLLINGER: Okay. Thank you.
18 Appreciate it.

19 CHAIRPERSON JONES: Mr. Brown.

20 ACTING COMMITTEE MEMBER BROWN: Yes. Thank you.
21 And I just have another I guess follow-up question on the
22 CERBT.

23 I'm sure, as you know, the State has agreed with
24 all of its employees to start prefunding OPEB, and about
25 half of them have already started to prefund the rest will

1 start on July 1st. So obviously a big chunk of money
2 coming in from the State employer and the State employees.
3 And we do plan on having it bake for 30 years. So I just
4 wanted to confirm that you've taken that into account as
5 you've built your recommendations for the asset
6 allocation.

7 INVESTMENT MANAGER REESE: Yes. That was a
8 component in terms of the cash flow forecast and the
9 information that we received from the program area and the
10 financial team.

11 ACTING COMMITTEE MEMBER BROWN: Thank you.

12 CHAIRPERSON JONES: Okay. Mr. Slaton.

13 COMMITTEE MEMBER SLATON: Thank you, Mr. Chair.

14 I know of one local agency called SMUD that's in
15 the CERBT and actually in the -- in number 1, and very
16 happy to have that available. Because under the MUD Act,
17 that that local agency is not allowed to invest in the
18 market. So this is the one vehicle that can be used for
19 doing that.

20 I think that -- from my conversations with them,
21 I think a lot of agencies -- those who are in it now --
22 and we're pretty -- haven't gotten to the funding level
23 but it's fairly significant, was able to build it up
24 pretty fast, are not in the mode yet of pulling money out
25 to do it. You know, it's just -- it's the normal part of

1 the budget for retiree medical and they've been able to
2 deal with it. So I think that there's a -- there's going
3 to be a period of adjustment of probably a few more years
4 before agencies start getting in the mode of saying,
5 "Well, gee, we can use part of this" for actually meeting
6 the requirement and try to get the level up.

7 My question is -- SMUD is in the most aggressive
8 fund. But if you look at how the breakout is, there's
9 only about 4 percent of the money that's been put in is in
10 that more aggressive investment.

11 Most of it's in the least aggressive fund.

12 So why is that? What do you think -- what's your
13 conversations with -- because, again, this is the one
14 place where the employer gets to choose. It's not a
15 choice made by CalPERS.

16 INVESTMENT MANAGER REESE: And so if you look
17 at - let's see - slide 6.

18 So strategy 1 is the most aggressive, which is
19 the 5.6 billion. And that was the first -- that was the
20 first strategy that was opened.

21 After that, strategy 2 and strategy 3 were
22 opened. Strategy 2 has the 880 and 3 has 261.

23 So strategy 1 being the most aggressive is the --

24 COMMITTEE MEMBER SLATON: Oh, I had it backwards.

25 INVESTMENT MANAGER REESE: Yeah.

1 COMMITTEE MEMBER SLATON: I had it backwards.
2 Sorry.

3 INVESTMENT MANAGER REESE: That's okay.

4 COMMITTEE MEMBER SLATON: Well, let me ask the
5 question in reverse. Why is 3 -- why does the least
6 aggressive strategy have so little participation?

7 INVESTMENT MANAGER REESE: Yeah. I mean that's
8 really up to the employers. If they want to -- they are
9 free to change strategies given, you know, a certain
10 amount of notice. They're free to move from 1 to 2, 2 to
11 3, and what not. Like we say, I mean it's really up to
12 the employer to make that choice as well.

13 You know, in working with their actuary, they --
14 you know, depending on their funding level, you know,
15 should potentially indicate what strategy they invest, but
16 it's not necessarily always the case.

17 COMMITTEE MEMBER SLATON: So we may actually
18 see -- unfortunately we can't do this in the PERF. But we
19 may actually see agencies saying, "Well, as I reach a
20 higher funding level, it's time to take risk off the
21 table." So is that -- is that kind of what we might see
22 as a future scenario?

23 INVESTMENT MANAGER REESE: Correct.

24 COMMITTEE MEMBER SLATON: Okay.

25 INVESTMENT MANAGER REESE: That is the idea, as

1 they get -- as they get more well funded, to potentially
2 move down to the strategies. When they -- you know, when
3 they -- when they move from strategy 1 to 2 though,
4 they're funding level -- that calculation will change.

5 COMMITTEE MEMBER SLATON: Yeah. But if they
6 reach a point where they're 100, 110 percent, then it may
7 be prudent to make that kind of move.

8 INVESTMENT MANAGER REESE: It would be. And
9 that's why, you know, we have the three offerings to
10 enable them to do that should they so choose.

11 COMMITTEE MEMBER SLATON: Is there consideration
12 of a fourth offering that really does take all the risk
13 off the table once you reach a point where you're
14 effectively fully funded?

15 INVESTMENT MANAGER REESE: Yeah. It has come up
16 I believe in conversations with certain employers. You
17 know, being that the third strategy is still quite small
18 and we haven't seen a lot of movement in that direction,
19 it's still a conversation at this point.

20 COMMITTEE MEMBER SLATON: Yeah, I know at least
21 one agency back in 2006 said they wished they could have
22 taken their PERF risk off the table.

23 INVESTMENT MANAGER REESE: Right.

24 COMMITTEE MEMBER SLATON: They wanted to do that,
25 but there was no vehicle to be able to do it.

1 Okay. Thank you.

2 CHAIRPERSON JONES: Okay. Ms. Mathur.

3 COMMITTEE MEMBER MATHUR: Thank you.

4 Yeah, I think given the discussion it's clear
5 that this is -- the recommendations of the Investment
6 Office are the appropriate strategic asset allocations for
7 the LRS, the JRS, JRS II, and CERBT, and so I move that we
8 approve that.

9 COMMITTEE MEMBER HOLLINGER: Second.

10 CHAIRPERSON JONES: It's been moved by
11 Ms. Mathur, seconded by Ms. Hollinger.

12 But before we vote, we do have a request to speak
13 on this item from the public. Mr. Al Darby.

14 And Mr. Darby has requested one additional minute
15 to his time, and I'm going to grant that. And by granting
16 that, any other speaker today will also be able to request
17 an additional minute.

18 MR. DARBY: Good morning, Mr. Chair and Board
19 members. Al Darby, Retired Public Employees Association
20 Vice President. My comments relate to the PERF more than
21 to these trusts, but it certainly could have some
22 application with the trust.

23 At RPEA we're receiving more and more inquiries
24 from our members regarding the funded status of CalPERS.
25 Frequent negative news articles and reports are raising

1 concerns that the sustainability of CalPERS is in doubt.

2 Additionally there were reports of dysfunctional
3 behavior within the Board that is interfering with the
4 sound administration of the CalPERS business affairs.

5 They also question why there hasn't been substantial
6 positive appreciation of funded status considering that
7 more than 30 -- there's a 30 percent increase in the Dow
8 over the last 18 months, a 40 percent increase in the
9 NASDAQ over the last 18 months, real estate values are
10 escalating, private equity is gaining, rising fixed income
11 returns, global equity is showing gains as well.

12 With 50 percent of the PERF investment pool
13 dedicated to global equity, real estate values rising
14 significantly, and dig again increases from recent tax
15 cuts, RPEA believes we should be seeing better results.

16 Could it be that the attention devoted to ESG and
17 corporate governance concerns are distractions that may be
18 unnecessarily diverting attention from the Investment
19 staff and managers from making consistently good
20 investment decisions? Distractions around divestiture
21 have been curtailed. Maybe these other distractions
22 should be sidelined as well.

23 Now, the most important thing is that there's a
24 new element here - or it's not that new but it's certainly
25 a new element - the most recent perspective talks about

1 risk and the issues around risk tolerance.

2 Have we become too risk averse? Is our risk
3 tolerance lower now than back in the heyday of the late
4 1990s when the fund went into euphoric conditions?

5 If it is lower, is it appropriate? We now have
6 an administration in Washington that is more business
7 friendly than ever before in the modern era. This could
8 dictate a more liberal tolerance than ever in the past.
9 This notion is supported by the extraordinary strength of
10 the economy now. Unemployment at 3.9 percent, low
11 inflation and low interest rates still. Construction,
12 everything else is booming.

13 RPEA is not -- is suggesting a radical departure
14 from current risk levels. But economic conditions today
15 don't match what was predicted two years ago, and that --
16 but that seems to still be driving CalPERS investment
17 policy.

18 We repeat, risk tolerance should be at a higher
19 level now than ever before based on the strength of the
20 economy.

21 Moreover, CNBC reported today that corporations
22 are using their tax-cut money to accelerate buy-back in
23 stock purchases, thereby raising stock prices. Wage
24 growth is gaining strength, a positive development for the
25 economy as well.

1 We believe that all of these conditions should be
2 fully taken into account by the Investment Committee and
3 perhaps risk tolerance returned to its higher level. It
4 seems that Joe Nation and those other fellows out there
5 who -- and other people out there who seem to think that 4
6 percent fixed income is what we should be fixed at is, we
7 believe to be, erroneous and we believe we should return
8 to a little more aggressive investment condition.

9 Thank you.

10 CHAIRPERSON JONES: Okay. Thank you, Mr. Darby.

11 We have a motion by Ms. Mathur and a second by
12 Mrs. Hollinger.

13 So all those in favor say aye.

14 (Ayes.)

15 CHAIRPERSON JONES: Opposed?

16 Hearing none.

17 The item passes.

18 Thank you.

19 We will now go to Item 6, information agenda
20 item: Revision of the Total Fund Policy - First Reading.

21 CHIEF INVESTMENT OFFICER ELIOPOULOS: Mr. Chair,
22 members of the Committee, We'll give Kit time and Andrew
23 time to move forward.

24 This is the first reading of the Total Fund
25 Investment Policy, planned for two readings.

1 Give Kit time to get ready. I think she is ready
2 to present the Total Fund Policy for you.

3 INVESTMENT DIRECTOR CROCKER: Thank you, Ted.

4 Kit Crocker, CalPERS staff. Good morning.

5 Item 6a is a first reading of staff's proposed
6 updates to the Total Fund Investment Policy, arising out
7 of this year's annual review. The annual review is an
8 important part of our effort to maintain an accurate,
9 current, and relevant policy framework. As this is a
10 first reading, our goal today is to receive your feedback.

11 This year's annual review involved a
12 comprehensive review and analysis of the policy section by
13 section, working with the appropriate program areas. As a
14 result, you'll see proposed changes across the investment
15 fund -- Investment Office. Excuse me.

16 In addition, because the Governance and
17 Sustainability Principles are housed within the Total Fund
18 Policy, this draft also reflects the work done by staff
19 and this committee over the past several months to
20 identify additional areas of focus for the principles.

21 Apart from some clean-up changes, the additions
22 to the principles address such key areas as CEO pay
23 ratios, clawback policies, product safety, geopolitical
24 risk, human capital management, corporate culture, and
25 environmental management.

1 Also based on feedback at the last Investment
2 Committee meeting in April, the principles now explicitly
3 include sexual harassment in the clawback section, as well
4 as a requirement that the Board be informed of action
5 taken in the corporate culture section.

6 The changes flowing from the general policy
7 review are intended, broadly speaking, to ensure basically
8 three things:

9 First, that the fund remains in alignment with
10 Board directives;

11 That it keeps pace with organizational and
12 process changes in the Investment Office; and also,
13 importantly,

14 That it continues to evolve toward a clear and
15 consistent statement of Board direction, free of
16 duplicative or primarily aspirational language or just
17 business-as-usual content that adds no value to the
18 oversight role played by this Committee.

19 To highlight just a few of these general review
20 changes, there you'll see changes made to reflect the
21 evolution of the Trust-Level Portfolio Management Team's
22 role, such as the transition of investment risk and
23 performance reporting duties from TLPM to the Investment
24 Risk and Performance Team.

25 Also you'll note the relocating of the

1 responsibility for periodic review of the Investment
2 Beliefs appropriately to this committee's responsibilities
3 section. And language to support more meaningful
4 oversight of the use of transition portfolios. We've
5 added language to rationalize the requirements and
6 reporting duties surrounding asset allocation shifts
7 within the approved changes' ranges. And also updating
8 the liquidity reporting language to reflect current
9 practice to routinely report on liquidity risk
10 considerations; in other words, not just at times of
11 market stress.

12 Finally, just to note there are reference in
13 today's agenda item to an Item 6b. That item was
14 originally contemplated for this meeting today, pertaining
15 to some proposed changes to the Private Equity Program
16 policy. Please note staff plans to return to the
17 Committee at a later date with those proposed changes.
18 And we may or may not want to defer to that meeting any
19 discussion of the related changes in today's Total Fund
20 Policy discussion.

21 Again this is a first reading. We're looking for
22 your feedback. And with that, I'll pause for questions
23 and also invite PCA, Meketa, and Wilshire to comment.

24 CHAIRPERSON JONES: Okay. Ms. Mathur.

25 COMMITTEE MEMBER MATHUR: I think Mr. Junkin had

1 a comment.

2 CHAIRPERSON JONES: Oh. Okay.

3 COMMITTEE MEMBER MATHUR: I'm happy to have him
4 go before me.

5 MR. JUNKIN: Andrew Junkin with Wilshire. I just
6 sort of had a stage-setting comment from our point of
7 view, which is, despite the fact that our opinion letter
8 is two pages, this is probably the agenda item we spent
9 far and away the most amount of time on today. And I
10 really actually want to take a moment just to commend
11 staff for their approach in terms of a spreadsheet that
12 they sent that listed every single change in the
13 rationale. It really made the process very easy. There
14 was a lot of back-and-forth follow up. So despite the
15 brevity of our opinion letter, this has been thoroughly
16 vetted by Wilshire. So I just wanted to note that at the
17 beginning.

18 CHAIRPERSON JONES: Okay. So since we started
19 with the consultants, I'm going to go down and have PCA
20 and then Meketa.

21 MR. GLICKMAN: Thank you. David Glickman from
22 PCA.

23 We echo Wilshire's overview. Our memo wanted to
24 specifically point to one item that was included as new
25 language and clarifying language. That spoke on page 36

1 of 102 to the responsibility of the Investment Committee
2 to continue to reinforce and restate the Investment
3 Beliefs. We think this is something that really belongs
4 at the Investment Committee level and should be owned,
5 those Investment Beliefs, by the Investment Committee.
6 And this update to the policy underlines that and
7 underscores that and makes it explicit, and we think
8 that's a positive change.

9 Thank you.

10 CHAIRPERSON JONES: Thank you for that comment.
11 Meketa.

12 MR. McCOURT: Steve McCourt, Meketa Investment
13 Group. We reviewed the policy changes in the context of
14 our role as the Board Private Equity consultant and
15 Infrastructure consultant.

16 The only item I wanted to highlight and we
17 highlighted in our memo was that there are some
18 inconsistencies in the required use of prudent person
19 opinions between the Real Assets program and the Private
20 Equity program. There's no issue with those being
21 different necessarily, but it might be a topic that the
22 Board would like to address with staff as you go through
23 this policy -- these policy changes. I think, all else
24 equal, having a consistent application of prudent person
25 opinions is clear.

1 CHAIRPERSON JONES: Mr. Eliopoulos, on that
2 recommendation, what is your feedback?

3 CHIEF INVESTMENT OFFICER ELIOPOULOS: Yeah, I
4 think -- I think the point is well taken by Meketa. I
5 think the area that really bears the most work is on the
6 Private Equity policy in looking at it vis-à-vis the Real
7 Assets program. As Kit mentioned, we'll be taking up the
8 Private Equity policy for review next month; and I think
9 that will be a good occasion for us to think through the
10 truing up of both and the rationale for differences really
11 based on risk characteristics. But next month will be a
12 good time for us to follow through on that recommendation.

13 CHAIRPERSON JONES: Okay. Thank you. We'll look
14 forward to that discussion.

15 Ms. Mathur.

16 COMMITTEE MEMBER MATHUR: Thank you.

17 So my question was with respect to the Investment
18 Beliefs. Because as I remember the process, it was such a
19 very thorough -- of developing them was such a very
20 thorough process. It was really developed in partnership
21 between the staff, the Investment Office, and the
22 Investment Committee. And I thought that was a very
23 productive process that led to a very strong set of
24 beliefs.

25 So I guess I'm a little bit confused about just

1 moving it to -- obviously, with policy, the Board
2 adopts -- always adopts the policy ultimately. But it
3 does seem to me that it should reflect better the
4 partnership between the Investment Office and the
5 Investment Committee in developing and perhaps refining
6 and facilitating this process as requested. I guess I'm
7 wondering if some periodicity is more -- is prudent. And
8 so it's not quite where I think it ought to be. And I
9 guess I would be open to further thoughts on why it was
10 exactly done this way, but...

11 CHIEF INVESTMENT OFFICER ELIOPOULOS: Why don't I
12 start, and then...

13 No, you're -- I think why we moved it was to be
14 clear about the primacy of the policy aspects of the
15 beliefs to -- you know, to reside with the Investment
16 Committee, with no intent of lessening the spirit of
17 partnership and the actual partnership; because, I agree,
18 that was one of the hallmarks of putting this project
19 together.

20 I think we should think a little bit. I think
21 it's appropriate to have the Committee have the primacy of
22 responsibility for -- you know, for the setting of the
23 beliefs and the review of it. Why don't we think about
24 some period of review that either the staff would affirm
25 or, you know, bring it back or raise our hand that we

1 think that it's timely for review. And I think mostly --

2 COMMITTEE MEMBER MATHUR: I mean, if you look --

3 CHIEF INVESTMENT OFFICER ELIOPOULOS: -- we'd
4 want to time it towards our -- I think the right cycle is
5 in conjunction with our ALM process, and making sure we do
6 it that way.

7 COMMITTEE MEMBER MATHUR: Sure.

8 I mean, just looking at the way Total Fund is
9 handled, it is both under the Investment Committee
10 responsibilities and the Investment Office staff. And it
11 seems to me the Investment Beliefs should be similar in
12 that regard.

13 CHIEF INVESTMENT OFFICER ELIOPOULOS: Yeah.

14 COMMITTEE MEMBER MATHUR: Thank you.

15 CHIEF INVESTMENT OFFICER ELIOPOULOS: Kit, any
16 other thoughts on that?

17 COMMITTEE MEMBER MATHUR: Sorry.

18 INVESTMENT DIRECTOR CROCKER: Oh, yes, yes.

19 I would only add, I think that reflecting the
20 connection to the ALM process is appropriate. It is --
21 the Investment Beliefs are even a step higher up than, I'd
22 say, the Total Fund Policy --

23 COMMITTEE MEMBER MATHUR: Sure.

24 INVESTMENT DIRECTOR CROCKER: -- which is fairly
25 high up, and more like constitutional principles that

1 you --

2 COMMITTEE MEMBER MATHUR: Sure.

3 INVESTMENT DIRECTOR CROCKER: -- I think we don't
4 want to be re-examining and trying to change too often.

5 But I totally agree with Ted, and we will work on
6 some language for the next reading.

7 COMMITTEE MEMBER MATHUR: Yeah. I'm not
8 suggesting that it needs frequent changes. It's more just
9 that to me it's a joint ownership. Of course the Board
10 adopts it. But I think -- I guess I really want to
11 preserve this view that it is -- it's a collaborative
12 product of the Investment Office team and the Investment
13 Committee, and that that should continue ongoing.

14 Anyway, I'll stop there.

15 INVESTMENT DIRECTOR CROCKER: Well, and totally
16 understood. And I can see that I think in our efforts to
17 be deferential, we may look like we stepped too far back.
18 But not the intent.

19 CHAIRPERSON JONES: Yeah, but I have a little
20 slightly different view of that. Because when we embarked
21 upon our Investment Beliefs, if you may recall, it started
22 out as a staff ownership project, and then we took a step
23 back and we said the Board had to be involved, and so the
24 Board took the ownership. But that did not eliminate the
25 involvement of staff, because it was a group effort.

1 Because I chaired that committee and I remember staff
2 being part of that, and three of us or four of us from the
3 Investment Committee worked with staff and the
4 consultants. So it was a cooperative effort.

5 But I think we also need to -- as we go forward
6 in many of these projects, we need to have who is the
7 owner of this project, because sometimes the lines get
8 blurred. And so I for one would support designating who
9 is the owner of all of the projects that -- even among
10 your staff, you know, someone has to take ownership.

11 So that's my comment.

12 Okay. Thank you.

13 Any other -- no.

14 Seeing no further questions.

15 We now have -- that's -- I think we have --
16 that's an information item.

17 We do have a request to speak on this item.

18 Mr. Ben Vernazza.

19 And you will have up to four minutes, as I
20 mentioned earlier, because we granted the previous speaker
21 an additional minute.

22 MR. VERNAZZA: Good morning.

23 In April last year I presented a letter to
24 CalPERS Governance which said: "By omitting a plan to
25 manage uncompensated risks, this investment policy

1 statement causes every fiduciary responsible for risk
2 management, including Board members, to be in breach of
3 their fiduciary duties."

4 My purpose today is to reaffirm in even stronger
5 terms that the currently revision of the Total Fund Policy
6 puts you further into your breach.

7 You, as trustees, face dire circumstances as is
8 outlined in our recent article in the American Institute
9 of CPAs June 2017 Tax Advisor: "Uncompensated Risk, the
10 Orphan of Modern Portfolio Theory."

11 In June of 2015, and again in September of 2016,
12 I made a presentation to this Board showing that if all
13 California public pension plans, collectively with three
14 quarters of a trillion dollars, were to reduce
15 uncompensated risk to gain one basis points - one
16 one-hundredth of one percent - additional return every
17 year, the yearly benefit would be 75 million each year,
18 which over 12 years at a target rate at that time of 7 and
19 a half percent would accumulate to one and a half billion
20 dollars.

21 I said a procedural process to prudently and
22 reasonably reduce uncompensated risk needed to be in
23 place.

24 During the fall of 2016, through the winter of
25 2017, we did a detailed study of five county public

1 pension plans and found that all five were in breach of
2 their duty to prudently and reasonably reduce
3 uncompensated risk.

4 They left behind between 19 basis points to as
5 much as 44 basis points on the table - left the money on
6 the table - for not reducing uncompensated risk.

7 We then did a comparison with CalPERS, and found
8 that during the same time period CalPERS left 40 basis
9 points on the table compared to a reasonable
10 uncompensated-risk-reduced portfolio. For CalPERS, that
11 meant leaving 1.2 billion each year, which over 12 years
12 at a target rate of 7 and a half percent could accumulate
13 to \$19 billion.

14 Significant circumstances are outlined in our
15 recent presentation to the Professional Fiduciary
16 Association of California made up of licensed and
17 regulated fiduciaries by the State of California. Three
18 things stand out:

19 The statute of limitations does not start to run
20 until a breach is cured. That was a Supreme Court case
21 three years ago.

22 Two, retirement plan fiduciaries are exposed to
23 joint and several liability. E and O insurance
24 policies -error and omissions - usually don't cover breach
25 of fiduciary duties.

1 I've got a link at the bottom of the page you
2 have that goes into 11 pages and the third restatement of
3 trust, which is the basis for all uniform acts and the
4 basis for the State of California Constitution regarding
5 investments. You need to read that. It's highlighted
6 where it demands that uncompensated risk be treated
7 differently than compensated risk.

8 I've also attached just for your information
9 comments that we made to the American Institute of CPAs
10 draft expose --

11 CHAIRPERSON JONES: Sir, your time is up.

12 Your time is up.

13 MR. VERNAZZA: Fine. Thank you.

14 You can read that later.

15 CHAIRPERSON JONES: Yes. Okay. Thank you.

16 MR. VERNAZZA: Any questions?

17 CHAIRPERSON JONES: No.

18 Okay. We'll move on to the next item.

19 And you may return to your seat please.

20 MR. VERNAZZA: Thank you.

21 CHAIRPERSON JONES: We now move to Item 7,
22 Summary of Committee Direction.

23 CHIEF INVESTMENT OFFICER ELIOPOULOS: Yes, Mr.
24 Chair. I'll take, as I believe directed, with respect to
25 the Private Equity policy to bring back with the first

1 reading of the Private Equity policy to look at the
2 treatment of PPO opinions in the Private Asset classes.

3 And secondly, with respect to the Total Fund, to
4 bring back at the second reading language with respect to
5 the -- use the term "ownership" of the Investment Beliefs
6 and the time periods for review.

7 I think those were...

8 CHAIRPERSON JONES: Ms. Yee had a request dealing
9 with the discount rate.

10 Oh, your mic.

11 Hit your button.

12 CHIEF INVESTMENT OFFICER ELIOPOULOS: Oh, for the
13 LRS.

14 Okay. So -- yes, I see it now. So the impact of
15 a discount rate -- of the discount rate on contributions
16 for the LRS.

17 COMMITTEE MEMBER YEE: Yes, right.

18 Thank you.

19 CHIEF INVESTMENT OFFICER ELIOPOULOS: We'll look
20 at that information.

21 CHAIRPERSON JONES: Okay. Thanks. So we're on
22 the same page.

23 Okay. So that concludes the summary of committee
24 direction.

25 Now we'll go to public comment. And we have two

1 requests to speak. And as I've indicated earlier, you
2 will have four minutes, consistent with my earlier
3 decision.

4 And so Mr. George Linn and Mr. Dane Hutchings.
5 Go ahead, Dane.

6 MR. HUTCHINGS: Good morning, Chair, members.
7 Dane Hutchings with the League of California Cities.
8 Thank you for giving me the time today.

9 Despite the recent solid foundation report that
10 was released by CalPERS, cities want to make it very clear
11 that our foundation is rocky at best. According to the
12 quarterly agency health report released by the Actuarial
13 Office, out of the 449 cities in the CalPERS PERF, 180 of
14 those cities are in the 60 to 70 percent funded status
15 range. And this is based on the 2016 valuations before
16 the amortization policy full discount rate reductions are
17 being accounted for. We believe that a significant number
18 of those 180 agencies are likely going to be falling
19 within the 50 to 60 percent range once those new
20 evaluations are made public in August.

21 Quite frankly, with no relief in sight for any
22 sort of legislative relief, any judicial relief, it is
23 incumbent upon this Board to try and maximize returns. It
24 is the only lever that can be increased, and it is what
25 local employers need to ensure that they can meet their

1 monthly or annual contribution rates.

2 The Board must explore all options to maximize
3 investment returns: assessing alternative, you know,
4 private equity investment strategies; following the
5 direction of other successful pension funds across the
6 country and across the world; you know, looking at ESG in
7 corporate governance and divestment policies. I firmly
8 believe that there is a significant difference between ESG
9 and straight divestments. You know, your staff has done a
10 really good job of being able to explain the merits
11 between both.

12 However, for us it's crunch time and, quite
13 frankly, we simply cannot stand another market slowdown,
14 substandard returns. We need as much money as possible to
15 ensure that we can take care of our public employees, and
16 continue to hire and retain public employees at the local
17 level.

18 So, you know, my comments are very general. But
19 in short, I think it is time to think outside of the box.
20 We've got to think of other ways to try and figure out
21 ways to outperform the projected 7 percent discount rate,
22 especially within the next decade.

23 We all know that PEPRA is something that our
24 members are looking for to seeing that cost savings come
25 in. But it's going to be another 30 years before that

1 really kicks in for our local governments.

2 It's how we get there. That's the issue. And
3 thus far it's simply been the employer pays more. That's
4 how we get there. The solid foundation in that report is
5 predicated on local employers being able to make their
6 monthly return -- their monthly payments. That simply
7 just isn't going to be the case if we continue down this
8 road.

9 And so I would encourage this Board to please for
10 the sake of your members, your employees, and your
11 employers to look at other alternative vehicles that can
12 try and maximize returns while staying within of course
13 the confines of your fiduciary responsibility.

14 And with that, I'll yield my time. Thank you.

15 CHAIRPERSON JONES: Thank you.

16 MR. LINN: Good morning, Board members. My name
17 is George Linn. I'm president of the Retired Public
18 Employees Association.

19 My comments are a little piggybacking on the
20 couple that you've heard from members of the public, but
21 they have a little slight change or direction.

22 The recent survey of stakeholders resulted in a
23 confidence level dealing with the PERF tumbling from 70
24 percent to 50 percent. That's the confidence level that
25 the stakeholders have in the fact that their pensions are

1 safe.

2 It seems to me that the beliefs, which I don't
3 disagree with, but the beliefs don't seem to resonate with
4 these stakeholders. They don't understand how those
5 actually come into play in the actual investment of the
6 PERF.

7 I am concerned, because the press is not always
8 our friend. And we need to find a way for this Investment
9 Committee and the Investment Department and the Public
10 Relations Department to do better to convince our
11 stakeholders that the PERF is safe. This is a very
12 important feature for any organization to be able to prove
13 that they're safe. And when you tumble from 70 percent to
14 a 50 percent confidence level, there's something wrong,
15 whether it's in application, communication or some other
16 feature.

17 Thank you.

18 CHAIRPERSON JONES: Okay. Thank you, Mr. Linn.

19 So that completes the requests to speak from the
20 public. And so that means we are at the end of the
21 agenda.

22 So this meeting is adjourned. And we will
23 convene closed session in about 10 minutes maybe?

24 Okay. In 10 minutes.

25 (Thereupon California Public Employees'

Retirement System, Investment Committee
meeting open session adjourned at 10:42 a.m.)

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

I, JAMES F. PETERS, a Certified Shorthand Reporter of the State of California, do hereby certify:

That I am a disinterested person herein; that the foregoing California Public Employees' Retirement System, Board of Administration, Investment Committee open session meeting was reported in shorthand by me, James F. Peters, a Certified Shorthand Reporter of the State of California, and was thereafter transcribed, under my direction, by computer-assisted transcription;

I further certify that I am not of counsel or attorney for any of the parties to said meeting nor in any way interested in the outcome of said meeting.

IN WITNESS WHEREOF, I have hereunto set my hand this 19th day of May, 2018.

JAMES F. PETERS, CSR
Certified Shorthand Reporter
License No. 10063