

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

ROBERT F. CARLSON AUDITORIUM
LINCOLN PLAZA NORTH
400 P STREET
SACRAMENTO, CALIFORNIA

TUESDAY, NOVEMBER 13, 2018
9:00 A.M.

JAMES F. PETERS, CSR
CERTIFIED SHORTHAND REPORTER
LICENSE NUMBER 10063

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, represented by Mr. Steve Juarez and Mr. Frank Moore

Mr. Rob Feckner

Ms. Dana Hollinger

Ms. Adria Jenkins-Jones

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

Mr. Dan Bienvenue, Managing Investment Director

Ms. Elisabeth Bourqui, Chief Operating Investment Officer

Ms. Tanya Black, Committee Secretary

Mr. John Cole, Investment Director

A P P E A R A N C E S C O N T I N U E D

STAFF:

Ms. Sarah Corr, Interim Managing Investment Director

Mr. Nelson Da Conceicao, Investment Manager

Mr. Mahboob Hossain, Investment Director

Ms. May Leung, Associate Investment Manager

Mr. Christine Reese, Investment Manager

ALSO PRESENT:

Mr. Al Darby, Retired Public Employees Association

Mr. Allan Emkin, Pension Consulting Alliance

Mr. Steve Foresti, Wilshire Associates

Mr. Steve Hartt, Meketa Investment Group

Mr. Andre Junkin, Wilshire Associates

Ms. Hannah Schriener, Meketa Investment Group

Mr. Larry Woodson, California State Retirees

I N D E X

	PAGE
1. Call to Order and Roll Call	1
2. Approval of the November 13, 2018 Investment Committee Timed Agenda	2
3. Executive Report - Chief Investment Officer Briefing - Ted Eliopoulos	3
4. Action Consent Item - Ted Eliopoulos	5
a. Approval of the September 24, 2018 Investment Committee Open Session Meeting Minutes	
5. Information Consent Items - Ted Eliopoulos	6
a. Annual Calendar Review	
b. Draft Agenda for the December 17, 2018 Investment Committee Meeting	
c. Monthly Update - Performance and Risk	
d. Monthly Update - Investment Compliance	
6. Action Agenda Item - Policy and Delegation	
a. Review of Investment Policy Updates - Second Reading - Kit Crocker	6
7. Information Agenda Item - Program Reviews	
a. Global Equity Annual Program Review - Dan Bienvenue, Nelson Da Conceicao, May Leung, and Christine Reese	8
b. Consultant Review of the Global Equity Program - Andrew Junkin, Wilshire Associates	43
c. Private Equity Annual Program Review - Sarah Corr and Mahboob Hossain	61
d. Consultant Review of the Private Equity Program - Steven Hartt and Hannah Schriener, Meketa Investment Group	112
8. Summary of Committee Direction - Ted Eliopoulos	123
9. Public Comment	123
Adjournment	126
Reporter's Certificate	127

P R O C E E D I N G S

1
2 CHAIRPERSON JONES: I'd like to call the
3 Investment Committee meeting to order.

4 The first order of business is roll call, please.

5 COMMITTEE SECRETARY BLACK: Henry Jones?

6 CHAIRPERSON JONES: Here.

7 COMMITTEE SECRETARY BLACK: Richard Costigan?

8 VICE CHAIRPERSON COSTIGAN: Here.

9 COMMITTEE SECRETARY BLACK: Margaret Brown?

10 COMMITTEE MEMBER BROWN: Here.

11 COMMITTEE SECRETARY BLACK: Steve Juarez for John
12 Chiang?

13 ACTING COMMITTEE MEMBER JUAREZ: Here.

14 COMMITTEE SECRETARY BLACK: Rob Feckner?

15 COMMITTEE MEMBER FECKNER: Good morning.

16 COMMITTEE SECRETARY BLACK: Good morning.

17 Dana Hollinger?

18 COMMITTEE MEMBER HOLLINGER: Here.

19 COMMITTEE SECRETARY BLACK: Andrea Jenkins-Jones?

20 COMMITTEE MEMBER JENKINS-JONES: Andrea
21 Jenkins-Jones, here.

22 COMMITTEE SECRETARY BLACK: Priya Mathur?

23 COMMITTEE MEMBER MATHUR: Here. Good morning.

24 COMMITTEE SECRETARY BLACK: Good morning.

25 David Miller?

1 COMMITTEE MEMBER MILLER: Here.

2 COMMITTEE SECRETARY BLACK: Ramon Rubalcava?

3 COMMITTEE MEMBER RUBALCAVA: Here.

4 COMMITTEE SECRETARY BLACK: Bill Slaton?

5 COMMITTEE MEMBER SLATON: Here.

6 COMMITTEE SECRETARY BLACK: Theresa Taylor?

7 COMMITTEE MEMBER TAYLOR: Here.

8 COMMITTEE SECRETARY BLACK: Betty Yee?

9 COMMITTEE MEMBER YEE: Here.

10 CHAIRPERSON JONES: Okay. Thank you.

11 The next item on the agenda is Approval of the
12 November 13 timed agenda.

13 And I would just like to note a minor
14 modification of the closed session agenda. We're going to
15 move item 4c to be discussed after item 5. And we will
16 not have the Item 6, the Investment Strategy Session with
17 the Board Consultants.

18 Ladies and gentlemen, before we begin our agenda
19 I'd like to make a few comments about our Chief Investment
20 Officer.

21 Today is a special day for our Chief Investment
22 Officer Ted Eliopoulos. It's his last Investment
23 Committee meeting and his last week with us after a
24 17-year career at CalPERS.

25 Some of you might not know that Ted served as a

1 representative on this Board during his tenure with the
2 pension fund. He also served as our Senior Investment
3 Officer for Real Assets and for the last four years our
4 Chief Investment Officer.

5 During Ted's CalPERS career, he worked to rebuild
6 our Real Estate portfolio, and helped set a strong vision
7 for our Investment portfolio to improve returns, reduce
8 complexity, and manage risk.

9 Ted has also been a champion for diversity and
10 the need to expand our workforce with the best new talent
11 in the investment industry. Ted is thoughtful, measured,
12 and embodies all the qualities of a true public servant.

13 On a personal note I want to thank Ted for his
14 support and guidance in my role as chief -- Chair of the
15 Investment Committee. You are not just a colleague but a
16 very special friend.

17 Ted, on behalf of the Investment Committee, thank
18 you for all of your contributions to CalPERS and
19 California. We wish you all the best in New York. And we
20 will have a more formal presentation of our Chief
21 Investment Officer at our full Board meeting on Thursday.

22 So, again, thank you Ted for your service.

23 (Applause.)

24 CHAIRPERSON JONES: And with that, I'll call on
25 you for your last Executive Report.

1 CHIEF INVESTMENT OFFICER ELIOPOULOS: Well, this
2 will be very brief. We have a focus on getting the work
3 of the system done, and today in the Investment Committee
4 we have quite a full agenda in front of us. And as you
5 said, you know, I'll have a chance to say goodbye on
6 Thursday, and I don't want to take up our precious minutes
7 today with all of the emotional thoughts running through
8 my head. It's been quite a 17-year career and it's been
9 an absolute blessing to work on behalf of the CalPERS
10 members and to work with this incredible staff and this
11 incredible Board. And I thank you from the bottom of my
12 heart for the friendship and for the leadership and for
13 those kind words. And really onto the work of the
14 Committee today.

15 Thank you.

16 CHAIRPERSON JONES: Okay. Thank you.

17 CHIEF EXECUTIVE OFFICER FROST: Chair Jones, if I
18 could add just a couple of comments.

19 As you indicated, this week is Ted's last week at
20 CalPERS and we'll spend more of the days this week
21 acknowledging and recognizing his contributions. And then
22 on Thursday I plan on making some additional comments as
23 well.

24 Since Ben Meng, our incoming Chief Investment
25 Officer, is not able to join us the system until January,

1 I've appointed Eric Baggesen as the Acting Interim Chief
2 Investment officer. And many of you know Eric and have
3 worked with Eric for several years. He's been with
4 CalPERS for over 14 years. His current role is the
5 managing investment director for asset allocation. He
6 also has been instrumental in creating our ALM process,
7 and so very familiar with the work of this committee.
8 You've seen him testify or make presentations to this
9 committee on several occasions.

10 I also want to thank the Investment Office -
11 Eric, Elisabeth, and all the managing investment
12 directors - for ensuring that we have a smooth transition
13 between Ted to Eric to Ben, and I know they're working
14 diligently to do that.

15 So with that, I'll turn it back over to Chair
16 Jones to get the Committee started.

17 CHAIRPERSON JONES: Okay. Thank you very much.

18 Okay. The next item on the agenda is the Action
19 Consent Item.

20 Do we have a motion?

21 VICE CHAIRPERSON COSTIGAN: Move it.

22 CHAIRPERSON JONES: Moved by Mr. Costigan.

23 COMMITTEE MEMBER MATHUR: Second.

24 CHAIRPERSON JONES: Seconded by Ms. Mathur.

25 All those in favor say aye.

1 (Ayes.)

2 CHAIRPERSON JONES: Opposed?

3 Hearing none.

4 The item passes.

5 Information Consent Items.

6 I've not received a request to move anything from
7 that item. So we would accept that item and move to the
8 next item on the agenda.

9 MS. HOPPER: Henry?

10 CHAIRPERSON JONES: Yes.

11 MS. HOPPER: Approval of the minutes?

12 CHAIRPERSON JONES: That was a consent item.

13 Yeah, that was approved when we approved the consent item.

14 MS. HOPPER: Oh, okay. Thank you.

15 CHAIRPERSON JONES: Okay. Thank you.

16 Okay. Now we will move to the Action Agenda
17 Item, Item 6, Policy and Delegation. Review of Investment
18 Policy Update.

19 MANAGING INVESTMENT DIRECTOR BAGGESEN: Good
20 morning, Mr. Jones. Eric Baggesen, Acting Chief
21 Investment Officer, fortunately for not that long a
22 duration before Ben gets here.

23 (Laughter.)

24 MANAGING INVESTMENT DIRECTOR BAGGESEN: So I'll
25 endeavor not to screw this up too badly for you.

1 (Laughter.)

2 MANAGING INVESTMENT DIRECTOR BAGGESEN: Agenda
3 Item 6a is an action item. It is the final reading, or
4 hopefully the final reading, of the Total Fund Policy
5 Revision. That will be presented by Kit Crocker; and I
6 believe Elisabeth Bourqui may have some comments as well.

7 INVESTMENT DIRECTOR CROCKER: Thank you.

8 Okay. Am I on the wrong one?

9 So sorry.

10 There we go. Okay. Thank you.

11 Kit Crocker, CalPERS staff.

12 Thank you, Eric.

13 Item 6a, as you mentioned, is a second reading of
14 the proposed updates to the Total Fund Investment Policy
15 and Real Assets Program Policy. And as we discussed at
16 the first reading in September, these changes arise out of
17 the recently concluded program reviews for TLPM, Trust
18 Level portfolio Management, and Real Assets.

19 The changes to the Real Assets Program Policy
20 have been made to reflect comments from the Committee
21 during the first reading, which is I think really just the
22 replacement of the word "limits" with "parameters" in Item
23 6a, page -- of Item 5, page 7 of 8 of the redline version,
24 Attachment 4. The Total Fund Policy is unchanged from the
25 first reading. Again, this is a second reading and we are

1 seeking action from the Committee.

2 CHAIRPERSON JONES: Okay. Do we have a motion?

3 COMMITTEE MEMBER MATHUR: Move approval.

4 CHAIRPERSON JONES: Moved by Ms. Mathur.

5 COMMITTEE MEMBER HOLLINGER: Second.

6 CHAIRPERSON JONES: Seconded by Ms. Hollinger.

7 All those in favor say aye.

8 (Ayes.)

9 CHAIRPERSON JONES: Aye.

10 Opposed?

11 Hearing none.

12 The item passes.

13 Thank you very much.

14 We now will move to Item 7, Information Agenda
15 Item - Program Reviews.

16 7a, Global Equity Annual Program Review.

17 MANAGING INVESTMENT DIRECTOR BAGGESEN: Okay.

18 Just as a piece of background on Agenda Item Number 7.

19 These are the program reviews that began in August, and

20 this is a continuing -- a continuation of a number of

21 programs that have already had reviews before this Board.

22 It started in August with trust-level portfolio management

23 and opportunistic, continued on to September with the

24 Global Fixed Income Program and the Real Assets Program.

25 And today we'll have the Global Equity Program followed by

1 Agenda Item 7b, which will be the Wilshire review of the
2 Global Equity Program.

3 Agenda Item 7c is the Private Equity Program
4 review. That program review will be conducted in two
5 parts: First a review of the historic results of the
6 program; and then we're going to have John Cole basically
7 making some comments about the aspirational future of the
8 program.

9 And that will be followed by an item from Meketa
10 Investment Group reviewing the Private Equity Program.

11 So I think, Dan, if you're ready, you can take it
12 on for Global Equity.

13 MANAGING INVESTMENT DIRECTOR BIENVENUE: All
14 right. Thanks, Eric.

15 Good morning, Mr. Chair, members of the
16 Committee.

17 (Thereupon an overhead presentation was
18 Presented as follows.)

19 MANAGING INVESTMENT DIRECTOR BIENVENUE: I'm Dan
20 Bienvenue, the Managing Investment Director for Global
21 Equity. And joining me today are several members of the
22 Global Equity team. But presenting to you will be Nelson
23 Da Conceicao and May Leung also, that we just heard a
24 research effort that was going on in Global Equity. And
25 then Christine Reese will come up. Christine's our newly

1 minted Investment Director over Global Equity Capital
2 Allocation and the affiliate's allocation. And Christine
3 will give us an update on the affiliate funds.

4 So as Eric said, this our annual program review.
5 As in years past, we'll start with an executive summary,
6 where I'll give the Committee an update on the performance
7 and the positioning of the portfolio and then a business
8 update. And from there we'll take a deeper dive with May
9 and Nelson leading into the research; and then, as I say,
10 an update on the affiliates from Christine.

11 --o0o--

12 MANAGING INVESTMENT DIRECTOR BIENVENUE: Okay.
13 So Fiscal Year '17-'18 was a very strong year in the
14 public equity markets, and Global Equity participated of
15 course in that strength, with a strong absolute return of
16 11 and a half percent. This 11 and half percent
17 represents about 40 basis points of underperformance
18 relative to the benchmark. That underperformance is due
19 to two main things: First of all, a defensive position;
20 and then secondly, a value-oriented positioning. This was
21 especially the case in the fiscal fourth quarter, and
22 indeed all of the underperformance came in the fourth
23 quarter. The portfolio was outperforming for the first
24 three-quarters of the year. But in the fiscal fourth
25 quarter the market got very concentrated and very sort of

1 growthy in a handful of tech names that Global Equity was
2 underweight intentionally, but that hurt the performance
3 from a relative return standpoint.

4 The longer numbers, the 3-year and the 5-year,
5 represent a handful of basis points of outperformance.
6 The 10-year still includes the effect of the financial
7 crisis, so that's a challenged period. But then out to
8 the 20-year and since inception the numbers get better
9 again.

10 --o0o--

11 MANAGING INVESTMENT DIRECTOR BIENVENUE: Moving
12 on to positioning. That defensive and value-oriented
13 positioning still exists in the portfolio. You can see
14 the defensive through the relatively low beta, represented
15 by the red bar; and then the very high quality,
16 represented by the orange bar; and then the value you can
17 see through the high exposure on the two yellow bars.

18 --o0o--

19 MANAGING INVESTMENT DIRECTOR BIENVENUE: By way
20 of business update, we'll first start with some
21 accomplishments and then we'll move on to some of the
22 major initiatives for Fiscal Year '18-'19.

23 For '17-'18 the main accomplishments I'd like to
24 draw your attention to are the launch of two internally
25 managed - they're externally sourced - ESG-based active

1 investment strategies.

2 Secondly, the strategy rationalization that
3 continues to go on in the Global Equity portfolio,
4 including internalization of mandates, closing and
5 collapsing some mandates, and then launching a handful of
6 strategies.

7 Finally, the main accomplishment here is the
8 affiliate ALM review process. Your recall members of the
9 Global Equity team and the trust level portfolio
10 management team, Eric's team, coming to present to you in
11 April, May, and June on successive updates to the
12 strategic asset allocation for the various affiliate
13 trusts.

14 For Fiscal Year '18-'19, the major initiatives
15 I'd like to draw your attention to are, first of all, the
16 search for transition managers. And you'll get an update
17 on that from the IMEP team next month. And then also the
18 review of the emerging manager program that's going on as
19 we speak.

20 Secondly is the implementation of the ALM
21 outcomes. So this asset liability management that new
22 strategic asset allocation for both the PERF and the
23 affiliates, that's certainly an area of focus for Global
24 Equity this year.

25 We also continue on our rationalization of the

1 portfolio, both the strategies and the risks that we take
2 in the portfolio.

3 And then finally we're continuing to implement on
4 the ESG strategic plan. That includes integration of both
5 the team and then the ESG factors under the
6 decision-making that goes on in Global Equity, our work on
7 Board diversity and executive compensation, and then of
8 course the engagements on the Climate Action 100+.

9 So, one of the points of this -- these annual
10 program reviews is to help the Board get a better
11 understanding of what goes on in the various asset
12 classes. So what we'll do is we'll pause for questions
13 after each section. So I'll pause here and then we'll
14 move on to research.

15 So with that, we really welcome any questions.

16 CHAIRPERSON JONES: Yes. Thank you. I have a
17 couple of questions, Dan. On page 2 -- no -- page 2 of
18 the presentation - and that's iPad page 294 - could you
19 expand on the term "defensive" and also at the bottom,
20 "active risk." Could you take a little deep dive on those
21 two items.

22 MANAGING INVESTMENT DIRECTOR BIENVENUE:

23 Certainly. If it's all right with you, I'll take
24 that in reverse order. We'll start with "active risk" and
25 then we'll move on to the next slide on "defensive."

1 So active risk is really the amount of sort of
2 differentness the portfolio is from the benchmark. So how
3 different the portfolio is. That can -- active risk can
4 be forecast. So how different the portfolio's holdings
5 are, and then what a risk model would say how difference
6 the performance can be in the future versus the -- I'm
7 sorry -- for the portfolio versus the benchmark.

8 In this case since real active risk here is
9 actually the realized active risk. So that's the
10 volatility of the differences of returns for the portfolio
11 versus the benchmark.

12 --o0o--

13 MANAGING INVESTMENT DIRECTOR BIENVENUE: As far
14 as defensive goes, really -- defensive, think about sort
15 of consistency. So some securities are very volatile and
16 very growthy and they'll have very high upside and very
17 high downside returns. Defensive is kind of the opposite
18 of that. It's something that will be -- you know, think
19 of like a telecom company. So very consistent
20 profitability, very consistent earnings, very consistent
21 profit margins, something that you would expect to perform
22 maybe not as well when the market's up but to hold up much
23 better when the market's down and when the economic and
24 business cycles are down.

25 CHAIRPERSON JONES: Okay. Thank you.

1 Yeah, we have Mr. Juarez.

2 ACTING COMMITTEE MEMBER JUAREZ: Yes. Thank you,
3 Mr. Chair.

4 I've asked this question before generally of the
5 portfolio, but maybe it's a good time to ask it about
6 Global Equity. And you -- because you made mention of the
7 fact that we're still seeing the effects of the 2007-8
8 period when we realized significant losses.

9 When are we likely to have the first posting of
10 the 10-year when it doesn't reflect sort of that bad news?

11 MANAGING INVESTMENT DIRECTOR BIENVENUE: I'm
12 really happy you asked that question, because I've been
13 waiting for that day since that period.

14 (Laughter.)

15 MANAGING INVESTMENT DIRECTOR BIENVENUE: This
16 next year is the year that the Fiscal Year '8-'9, which
17 is, you know, Lehman went bankrupt in September of '08.
18 That was the period that is so challenged both in absolute
19 and relative returns. And as I say, I'm really looking
20 forward to reporting next year when that period rolls
21 off -- rolls off of the 10-year. It will still be in the
22 20 and since inception of course. But rolls off of the
23 10-year.

24 ACTING COMMITTEE MEMBER JUAREZ: Okay. Well,
25 that'll be a good time to discuss the ramifications of

1 that all.

2 Thank you.

3 MANAGING INVESTMENT DIRECTOR BIENVENUE:

4 Certainly. Thank you.

5 CHAIRPERSON JONES: Ms. Taylor.

6 COMMITTEE MEMBER TAYLOR: Yes. Thank you.

7 So I wanted to continue Mr. Jones' -- because I
8 think you said -- his question on defensive. So I think
9 you said something about tech oriented earlier in your
10 presentation, that that would -- that we weren't --

11 MANAGING INVESTMENT DIRECTOR BIENVENUE: That is
12 the opposite of defensive, absolutely. Tech is very
13 growthy and very high volatility.

14 COMMITTEE MEMBER TAYLOR: Okay. And that's where
15 gains were made in '17-'18, which we were not as involved
16 in; is that what you were saying?

17 MANAGING INVESTMENT DIRECTOR BIENVENUE: We
18 certainly participated. I mean the 11 and a half percent
19 return certainly is a strong absolute return. But, yes,
20 we were underweight those names. You know, candidly I
21 would say one of the perspectives of a -- of certainly
22 Global Equity, and I think the organization, is that we
23 probably have a greater, I guess -- you know, the term is
24 "utility" -- but I guess we enjoy the upside less than we
25 feel pain from the downside --

1 COMMITTEE MEMBER TAYLOR: Right.

2 MANAGING INVESTMENT DIRECTOR BIENVENUE: -- if
3 that makes sense.

4 So a very strongly downmarket given the
5 cyclicity of the -- you know, the California economy, et
6 cetera. The downside pain is worse than upside gain.
7 Especially getting 11 and half percent, we -- you know,
8 we're content with that.

9 COMMITTEE MEMBER TAYLOR: Sure, sure. Okay.
10 That's what I just wanted to clarify.

11 And then on page 4 of your presentation, the very
12 first item under Fiscal Year - Major Accomplishments was:
13 Launched Two Internally Managed ESG-Based Strategies.
14 Could you expand to that for me.

15 MANAGING INVESTMENT DIRECTOR BIENVENUE: Yeah, so
16 those were the ones that we did a search for ESG
17 strategies. You recall, part of the ESG Strategic Plan
18 was doing a search for strategies within Global Equity.
19 Those are the two strategies that resulted from that.

20 COMMITTEE MEMBER TAYLOR: Okay. Great. Thank
21 you.

22 MANAGING INVESTMENT DIRECTOR BIENVENUE: They
23 each launched at about a billion dollars apiece and --

24 COMMITTEE MEMBER TAYLOR: Oh, nice.

25 MANAGING INVESTMENT DIRECTOR BIENVENUE: -- you

1 know, it's very early days. But --

2 COMMITTEE MEMBER TAYLOR: Right, right, right.

3 MANAGING INVESTMENT DIRECTOR BIENVENUE: -- but
4 they're performing well so far.

5 COMMITTEE MEMBER TAYLOR: Nice.

6 All right. Thank you.

7 CHAIRPERSON JONES: Ms. Mathur.

8 COMMITTEE MEMBER MATHUR: Yeah. Well, I just
9 wanted to say a couple of things. One, is that I think
10 this defensive posture is -- was the -- is the right
11 posture, that it's -- we never know in advance when the
12 correction is coming; and it is coming. It is going to
13 come. And so it could have happened a quarter ago. It
14 didn't. But I think -- I personally think it's the right
15 posture to be in. And that is worth giving up that bit of
16 growth-related performance over the last quarter. So
17 stick to your guns is my message there.

18 Similarly with sort of the global benchmark,
19 which we went -- which we moved to I think what, a decade
20 ago now - something like that - which I know we believe is
21 the right thing, and I still believe it's the right thing.
22 It didn't serve us really over the last several years, but
23 it seemed -- but I still -- again, it's one of those
24 things which you're wrong until you're right. But I
25 believe that that's -- that's the right place to stay now.

1 I did want to ask about active management,
2 because -- and I don't know, maybe -- I don't know if I
3 should hold that question. But we have moved increasingly
4 towards more passively oriented portfolio. And, you know,
5 I know that different of our peers have different
6 approaches. Some are similarly oriented as we are, and
7 others have a more significant active portfolio.

8 Florida, for example, has a very -- an active
9 portfolio, it's been performing really strongly. I guess
10 I'm just -- I would like you to maybe talk a little bit
11 more about our -- your philosophy around that and where
12 you think there might be opportunities on the active
13 management side that we haven't perhaps captured or -- and
14 what you think is sort of the balance moving forward.

15 MANAGING INVESTMENT DIRECTOR BIENVENUE: Thank
16 you for the questions.

17 I will say that, you know, active management in
18 the equity space is very difficult, right. The markets
19 are fairly efficient; not perfectly efficient but fairly
20 efficient, and so active management is challenging.

21 And to your previous comments on not knowing when
22 the next downturn will come, not knowing when Stock A is
23 going to outperform Stock B, all of those things. If we
24 had a critical ball it would be much easier, but we don't.

25 I will say that when you look at the third

1 sub-bullet under the second bullet here on the business
2 update, one of the things we're working our way through is
3 actually getting the whole Investment Office to get a
4 perspective on that active management, both within Global
5 Equity and elsewhere because it is the case that we do
6 think that there's some opportunity to be added by active
7 management; but, you know, it can also be detracted by
8 active management. And so it's just got to be prudent.
9 And so we're working our way through that as a team.

10 COMMITTEE MEMBER MATHUR: Okay. Terrific. Thank
11 you.

12 CHAIRPERSON JONES: Okay. Ms. Yee.

13 COMMITTEE MEMBER YEE: Thank you, Mr. Chairman.
14 Thank you for the update so far.

15 On this same slide I was wondering, can you just
16 elaborate a little bit more on the strategy
17 rationalization and what that entails.

18 MANAGING INVESTMENT DIRECTOR BIENVENUE: On
19 the -- I'm sorry, for accomplishments on the second --

20 COMMITTEE MEMBER YEE: On the second bullet,
21 uh-huh.

22 MANAGING INVESTMENT DIRECTOR BIENVENUE:
23 Certainly.

24 So we internalized a handful of strategies. So
25 we -- basically when a strategy we think -- if the trading

1 in the portfolio construction or the strategy are very
2 tightly linked, we think we need to keep that externally
3 managed. But when there's situation where we can separate
4 the trading from the portfolio -- from the creation of the
5 portfolio or the model, we like to internalize that. It
6 gives us the opportunity to cross, it gives us greater
7 control of the assets, it's lower cost generally by far.
8 So that's one of the things that's in there, is that
9 internalization of strategies.

10 We also closed a handful of strategies concurrent
11 with the launch of the two ESG-based strategies. We
12 closed the climate change index strategy that was -- had
13 been provided by HSBC that they no longer provided for us.

14 So that's basically what that rationalization is,
15 is that -- is a series of internalizations, close and
16 collapses, and then the launching of the strategies also.

17 COMMITTEE MEMBER YEE: Okay. Great. Thank you.

18 And then -- I'm sorry. Are you going to be going
19 into some of the other slides in the appendix, or should
20 I --

21 MANAGING INVESTMENT DIRECTOR BIENVENUE: We will.
22 We're going to be going through the research, which I
23 think are from slides 19 to maybe 24 or 5. And we can --
24 we can either go into those and then anything we don't
25 cover, then take questions. Or if you'd rather cover

1 anything that's outside of those, we'd be happy to take
2 those now also.

3 COMMITTEE MEMBER YEE: Oh, I'll just hold off.

4 In terms of the ESG strategic plan implementation
5 I had some questions about some of the internally managed
6 ESG-based strategies, but I can wait.

7 MANAGING INVESTMENT DIRECTOR BIENVENUE: Okay.
8 All right. So why don't I hand it -- I'm sorry, are there
9 other questions?

10 CHAIRPERSON JONES: Yeah, I think Eric's been
11 trying to get my attention.

12 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah,
13 just -- I wanted to make a comment in relation to the
14 questions about active risk. Because ultimately this
15 whole topic of active risk -- and you need to understand
16 that the active risk means basically someone is making
17 incremental decisions that extend beyond the beta and the
18 structure of the strategic asset allocation that this
19 Board has decided. So we actually need to then question
20 whether or not -- what is the decision process that
21 underlies those differences and what is the probability
22 and the consistency of the expected outcome that happens
23 from that. So that's going to be a topic that basically,
24 you know, Ben, our new Chief Investment Officer is
25 absolutely committed to doing an examination of the

1 elements of active risk and looking at that across the
2 entire portfolio. Because ultimately we need to determine
3 what you as a board -- what is the appetite for variation
4 that you actually have on behalf of this plan relative to
5 the strategic asset allocation And are we basically
6 allocating that appetite for variance to the places where
7 we have the greatest confidence that we're going to get a
8 positive outcome from that happening.

9 Because the only reason for taking active risk is
10 because you believe that somehow you can improve the
11 situation by either generating higher returns or lower
12 levels of risk for the same level of return. And it's a
13 very high hurdle that needs to attach to that activity.

14 So that will be an examination, as Dan mentioned, that
15 has to happen across all the places where we are making
16 decisions that are incremental to the structure of the
17 strategic asset allocation.

18 CHAIRPERSON JONES: Okay. Thank you.

19 Okay. Dan.

20 MANAGING INVESTMENT DIRECTOR BIENVENUE: All
21 right. So if there are no further questions, I'll turn it
22 over to May and to Nelson, as I say, to take us into the
23 research and, Ms. Mathur, to your comment on the sort of
24 the global-cap-weighted nature of the portfolio. You'll
25 see that on slide 23 and we'll be discussing that.

1 All right. Nelson.

2 --o0o--

3 INVESTMENT MANAGER DA CONCEICAO: Good morning.
4 Nelson Da Conceicao, the Investment Manager, Global
5 Equities.

6 Turning to slide 19.

7 All right. I'm truly delighted today to shed
8 light on Global Equity's research function. After a I
9 high level description of what we do, why we do, and how
10 we do it, May and I will get into a few practical examples
11 of our research.

12 Turning to slide 19, framing slide. There the
13 three things I'd like to share with you today about the
14 team.

15 The first thing is the mission: Produce quality
16 research to support CalPERS Global Equities portfolio
17 management.

18 In other words, we aim to deliver actionable
19 insights aiming to improve the outcome of our portfolio.

20 Second, the scope of our research. It is wide,
21 including market diagnostics, internal strategy
22 development, and support of our external manager selection
23 function. Our team impacts all aspects of the Global
24 Equity portfolio management.

25 Third, how does the team operate? Our three

1 percent team, Bridgette, May and I, face a vast asset
2 class and, as just mentioned, a wide array of topics to
3 research. Therefore, our projects need to be vetted and
4 prioritized carefully. We use two core guiding principles
5 - internal beliefs, if you will - to do so.

6 The first principle is the principle of active
7 stewardship. This is the principle by which we don't take
8 past realizations for granted. Instead, we thrive to
9 deeply understand the drivers and robustness of the
10 forward returns we pursue and the nature of the risks we
11 undertake, in active or index-related strategies; and
12 that's important.

13 Principle number 2. It is the principle of
14 maximization of return on capital and alignment with Total
15 Fund priorities and beliefs. We'll touch on these
16 critical components a bit later in the presentation.

17 At this stage, if you don't have any questions on
18 this high level presentation or view of what we do and how
19 we do, I will turn the microphone to May for our first
20 drill down.

21 CHAIRPERSON JONES: Proceed.

22 Your Mike.

23 ASSOCIATE INVESTMENT MANAGER LEUNG: Hi,
24 everyone. May Leung, Associate Investment Manager from
25 Global Equity.

1 --o0o--

2 ASSOCIATE INVESTMENT MANAGER LEUNG: Equity
3 returns can be broken down into a few very basic
4 components. And in the shorter term, it is the earnings
5 growth and the valuation that drives the equity returns.
6 Over the longer period, for example, 10 to 20 years, as
7 you can see on the chart, is mainly earnings that drive
8 equity returns.

9 Valuations still matters for us, because I can
10 walk over an example on how valuation adds to volatility
11 and downside risk.

12 Next slide.

13 --o0o--

14 ASSOCIATE INVESTMENT MANAGER LEUNG: So our
15 current house view is valuation for Global Equity is
16 within fair change. U.S., as highlighted here, is the
17 most stretched out of all the major regions.

18 Earnings typically by historical standards has
19 tracked GDP growth very closely, and so far this cycle has
20 been the same. But as of late earnings growth has been
21 very strong and has been exceeding GDP growth. So this
22 poses a risk of disappointment for us, because if earnings
23 were to decelerate, that would have an impact on our
24 equity returns.

25 Next slide.

1 relatively short horizon, at least from a CalPERS point of
2 view, and it's a year or two at most.

3 As long horizon investors, we can't and we don't
4 ignore short-term market dynamics. And we spent a large
5 amount of time researching long-term drivers of risk and
6 return.

7 I'd like to share with you also today a few
8 examples -- a few expressions of that kind of research.

9 --o0o--

10 INVESTMENT MANAGER DA CONCEICAO: Slide 23. The
11 first item on this slide relates to our review of
12 long-term prospects of growth in our strategic benchmark.
13 And specifically it's allocation to emerging markets. The
14 topic is multi-faceted, complex, controversial, and work
15 in progress. So instead of sharing with you definitive
16 premature conclusions, I thought I would share with you a
17 few stats that perhaps frame best the research topic at
18 hand.

19 As shown on the bars on the bar chart, emerging
20 markets represent today a bit more than a third of the
21 global GDP. It's projected - those are projections of
22 course - to represent almost half of global GDP in less
23 than 20 years, accounting for most of the growth over that
24 period of time.

25 In contrast, today, emerging markets (countries)

1 researchers since then. And implemented with success --
2 with good success by many investors.

3 So why are we there?

4 Our continued interest in style, factor investing
5 is based on a core belief, a strong belief that long-term
6 investors with low extraction costs, like CalPERS, can
7 harvest the full benefit of these type of strategies -
8 persistent patterns of returns, persistent properties of
9 diversification.

10 As early adopters we think we have an edge, a
11 true edge in this area that touches to the philosophy, if
12 we keep researching. And our focus this year, in the next
13 few quarters is to enhance our allocation among factors
14 and really integrating ESG considerations in that
15 framework. It is a very important dimension in this type
16 of work. We strongly believe that those two items will
17 further enhance our capabilities in this area.

18 With this, this concludes our team's comments,
19 our review of this team, and we are -- we'll be excited to
20 respond to your questions.

21 Thank you.

22 CHAIRPERSON JONES: Okay. Thank you.

23 Ms. Hollinger.

24 COMMITTEE MEMBER HOLLINGER: Yeah, thank you.

25 Thank you very much for the presentation.

1 I have a question. How -- when we're looking at
2 our allocations or you're doing your evaluations, how are
3 we factoring in that -- due to the fact that we have a
4 maturing population and that we have actuarially a
5 symmetrical risk, because more people going on claim than
6 coming into the system, how are we weighing in that
7 analysis when we're looking at our allocations or our
8 defensive positions?

9 MANAGING INVESTMENT DIRECTOR BIENVENUE: So
10 really the primary place -- and I should probably look at
11 Eric -- because the primary place --

12 (Laughter.)

13 MANAGING INVESTMENT DIRECTOR BIENVENUE: -- where
14 that's weighed in is in the strategic asset allocation.
15 It is the case, to Ms. Mathur's point, that we do believe
16 that having a defensive positioning --

17 COMMITTEE MEMBER HOLLINGER: Which I agree with,
18 right.

19 MANAGING INVESTMENT DIRECTOR BIENVENUE: What
20 happened in the crisis was both strongly down and
21 underperforming. That is, as I say, much more painful
22 than strongly up and outperforming.

23 So we certainly do weigh it in in our defensive
24 positioning, but the primary place is in the strategic
25 asset allocation.

1 And I'll let Eric take the question.

2 COMMITTEE MEMBER HOLLINGER: Thank you, Eric.

3 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah, let
4 me take a stab at that a little bit.

5 If you recall the work that we've done on the
6 strategic asset allocation, we basically have looked at
7 both -- the expression that you just related, Ms.
8 Hollinger, really shows up in the cash flow profile of the
9 fund.

10 COMMITTEE MEMBER HOLLINGER: Correct.

11 MANAGING INVESTMENT DIRECTOR BAGGESEN: Okay. So
12 in other words, it's the anticipated negativity of the
13 cash flows prior to the decision that was made to reduce
14 the discount rate and shift some of the actuarial
15 assumptions.

16 That decision has basically improved the
17 anticipated cash flow picture of the fund. But we do not
18 try to -- intentionally do not try to take that cash flow
19 posture and push it into every single asset class. In
20 other words, this issue of managing the liquidity in the
21 demographic profile is something that is absolutely better
22 managed from the strategic asset allocation across all the
23 asset classes --

24 COMMITTEE MEMBER HOLLINGER: Got it.

25 MANAGING INVESTMENT DIRECTOR BAGGESEN: -- in

1 contrast to trying to encumber Global Equity at the moment
2 anyway with that challenge. And that would also be a true
3 statement in relation to, for example, Private Equity
4 where we are basically committing capital for long periods
5 of time.

6 So currently, that --

7 COMMITTEE MEMBER HOLLINGER: But it still makes
8 us -- if I'm understanding you correctly - and I agree
9 with Ms. Mathur, it's still making us more sensitive to
10 our downside risk because of those circumstances - it
11 could be exacerbated. And what I like is we're protecting
12 our beneficiaries -- or we're trying to buffer.

13 MANAGING INVESTMENT DIRECTOR BAGGESEN: No,
14 that's exactly right. And if you recall though basically
15 in the strategic asset allocation work, we are -- CalPERS
16 has a relatively moderate allocation to public equities
17 compared to many pension funds and public pension funds in
18 the United States. Part of that is all of that expression
19 and the way that that -- all of these risk elements get
20 distilled down into the decision factors that you
21 contemplate. And, again, those decision factors are the
22 effect on the funded ratio. So certainly the downside
23 affects the funded ratio. It's also the effect on the
24 contribution levels that we're asking employers to be able
25 to contribute to the fund, and also the change in those

1 levels of contributions.

2 So all of this whole picture of that demographic
3 profile that you allude to are all reflected in those risk
4 measurements as we consider the strategic asset
5 allocation. But this -- it's important to recognize,
6 within each asset class we are not trying to manage the
7 entire risk profile of the fund within each asset class.

8 COMMITTEE MEMBER HOLLINGER: Right.

9 MANAGING INVESTMENT DIRECTOR BAGGESEN: We do
10 that across the asset classes, as the tools that we have
11 to manage those risk elements are actually -- in asking --
12 Global Equity can only protect the downside so much from
13 within Global Equity.

14 COMMITTEE MEMBER HOLLINGER: No, I recognize
15 that.

16 MANAGING INVESTMENT DIRECTOR BAGGESEN: Right.
17 So basically there are better tools within the structure
18 of the strategic asset allocation to actually accommodate
19 the real -- the real downside of that exposure.

20 COMMITTEE MEMBER HOLLINGER: Okay. Thank you.

21 CHAIRPERSON JONES: Ms. Mathur.

22 COMMITTEE MEMBER MATHUR: Thank you.

23 Well, I think this might be the best Global
24 Equity asset class review that we've had, honestly. I
25 think embedding it into the research and sort of what's

1 underpinning some of the questions that the team is asking
2 and the positioning that the team is taking is really
3 helpful to the Board. And these slides are excellent.
4 They're so crisp and really get at -- and really get at
5 these issues. So I want to thank you all very much for
6 this presentation.

7 It does highlight to me, particularly page 23,
8 that we cannot be managing this portfolio by looking in
9 the rearview mirror. We have to be looking ahead. And
10 that is a very tricky place -- thing to do, because
11 obviously nobody really knows what's going to happen.
12 There are lots of projections. But this really asks the
13 question, page 23, of whether we want to be cap weighted,
14 as, you know -- in our public equities, or whether we want
15 to think of something else that might better capture the
16 global growth moving forward. And that's a really tough
17 question.

18 So I thank you for posing that and educating all
19 of us.

20 MANAGING INVESTMENT DIRECTOR BIENVENUE: So first
21 and foremost, thank you for the comment. I can't take any
22 credit. I've got to give all the credit to the team. But
23 thank you.

24 A lot of thought did go into the review
25 certainly.

1 I'll also say that when it comes to the
2 benchmark, we are thinking about it. We know that as part
3 of the ALM cycle there's a two-year midpoint where we
4 review the benchmark again. We know we -- there's some
5 stuff on dual-class shares and voting rights.

6 But then also one of the things is to look at
7 emerging markets, and particularly China, to see if we
8 want to do something -- you know, something that's
9 different from just cap weighting. And there's certainly
10 more -- very early days on the research, more to come.
11 But we'll be coming back with that in a year or so.

12 COMMITTEE MEMBER MATHUR: And as you note -- I
13 think one of these noted that it might not -- Global
14 Equity might not be the right place to manage the
15 exposures to the emerging markets. And that's also an
16 important question. So I appreciate that the Global
17 Equity team is thinking beyond just global equities enough
18 at the Total Fund level.

19 MANAGING INVESTMENT DIRECTOR BIENVENUE:
20 Certainly. Absolutely a team effort across the board.

21 COMMITTEE MEMBER MATHUR: Yeah, thanks.

22 CHAIRPERSON JONES: Yeah, thank you.

23 Eric and Dan, I think both of you made reference
24 to cash flow. And are we cash flow negative? And when --
25 I'm defining cash flow as the contributions versus our

1 payout of \$21 billion or \$22 billion a year.

2 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah, the
3 cash flow is currently -- and certainly the Finance Office
4 could also comment on this. But the cash flows currently
5 I think are just slightly negative. We're pretty much in
6 balance. And the picture actually gets a little bit
7 better going forward. And that picture getting better is
8 largely driven by the fact that there are incremental
9 contributions that are expected to be paid into the fund
10 over the next couple of years.

11 So that whole cash flow picture has gotten
12 significantly better than it was in the 2013 asset
13 allocation work where we at this -- in this stage of the
14 game we anticipated we would be pretty significantly cash
15 flow negative.

16 So basically that neutrality around the cash flow
17 picture allows us to potentially increase our exposure to
18 longer term assets, things like this whole Private Equity
19 discussion that will be coming up later on today.

20 And also to sustain the risk that is engendered
21 by investing in the equity markets.

22 So literally you saw for the last fiscal year an
23 11+ percent return from the asset class. If you're
24 looking at our current fiscal year, that return number is
25 negative. So that kind of volatility, the equity asset

1 class pays off, but you have to be able to maintain that
2 exposure through lots of different economic environments.
3 And that's what the cash flow posture and the improving
4 cash flow posture basically helps enable.

5 CHAIRPERSON JONES: Yeah. And I'll wait until
6 tomorrow and ask Mr. Cohen what's the number, okay, on
7 cash flow.

8 Okay. Thank you.

9 Okay. Seeing no further questions.

10 Thank you for the presentation.

11 MANAGING INVESTMENT DIRECTOR BIENVENUE: All
12 right. Thank you.

13 CHAIRPERSON JONES: Next.

14 MANAGING INVESTMENT DIRECTOR BIENVENUE: So
15 Nelson and May will step down and let Christine join us up
16 here. And as I say, Christine will give us an update on
17 the Affiliate Program in whole; but then also, you know,
18 specifically on the implementation of the new ALM and
19 strategic asset allocation that you saw in April, May, and
20 June.

21 So with that I'll turn it over to Christine.

22 INVESTMENT MANAGER REESE: Thank you, Dan. And
23 good morning, Mr. Chair and members of the Committee.
24 Christine Reese, CalPERS team member.

25 So before I get started in the presentation, I

1 wanted to acknowledge that I may be presenting but that my
2 team is -- you know, is very dedicated and has quite a few
3 contributions to the management of these funds. And then
4 joined here with me today in the first row are two of my
5 team members, David Carmany and Katie Karl.

6 --o0o--

7 INVESTMENT MANAGER REESE: Thank you.

8 So to get started, I am going to cover a little
9 bit of background on the Affiliate trust funds, provide an
10 investment update and a business update. And within the
11 appendix are further details covering the points that I --
12 that I verbalized in the presentation.

13 --o0o--

14 INVESTMENT MANAGER REESE: So on slide 3 are the
15 eight Affiliate trusts that we manage in the Investment
16 Office, and they are segregated into the four styles of
17 funds. And the important point here is that each of these
18 trusts are established by law. They have different
19 beneficiaries, different legislative mandates, and IRS
20 treatment, which leads to a unique and individualized
21 asset allocation and investment strategy.

22 So although we tend to maybe talk about the
23 affiliates as a group, they are unique and they do require
24 individualized investment management.

25 --o0o--

1 INVESTMENT MANAGER REESE: With regard to the
2 investment update, with growth and performance at June 30,
3 2018, our assets under management were 16 and a half
4 billion, up 77 percent within the last five years. And
5 both investment returns as well as contributions are
6 driving that growth. CERBT is one of the Affiliate trusts
7 that has seen quite a large growth factor. For example,
8 in Fiscal Year '17-'18, the CERBT trust grew by about one
9 and a half billion, with a billion of that being from
10 contributions alone. And we expect for that particular
11 trust for the growth trajectory to remain into the near
12 future.

13 For investment returns, our investment belief
14 number 6 states that strategic asset allocation is the
15 dominate determinant of portfolio risk and return. A lot
16 of our affiliate trust funds are multi-asset class funds
17 wherein we invest in equities, bonds, TIPS, commodities
18 and REITs. And as Dan mentioned earlier, we set the asset
19 allocation strategic review earlier in the year and what
20 we see for performance when looking in the rearview mirror
21 is that, from times past, the -- the returns are aligning
22 with our strategic asset allocation objectives.

23 And then investment belief number 8 states that
24 costs matter and they need to be effectively managed. And
25 one of the ways that we do this for the Affiliate funds is

1 by investing in institutionally managed index funds with
2 low cost profiles and fee profiles, as well as utilizing
3 technology to manage the various funds, their various
4 mandates, in an efficient and effective manner.

5 So diving in a little deeper into the asset
6 allocation implementation. Back in April, May, and June
7 we came to the Committee for review and approval of the
8 strategic asset allocation for the funds. And since that
9 time, we have partnered with our Investment Office -- many
10 Investment Office teams as well as other CalPERS teams
11 such as Program Administration and Legal, as well as our
12 third-party partners to effectuate this change. And
13 because we have so many different trusts, they all require
14 something slightly different. So, for example, within the
15 Supplemental Income Program that required a fairly
16 extensive communication campaign to the 30,000+
17 participants.

18 Along with that, we worked to structurally set up
19 the systems and documentation. And we were able to trade
20 to the new allocations at -- as of October 1st. And we
21 packaged that with our regular quarterly rebalance of the
22 funds for an efficient and effective trade.

23 And then one thing I want to mention is that with
24 the allocation there were two other elements with regard
25 to the SIP funds. One was that we changed the glide path

1 for the target date funds from a "to retirement" to a
2 "through retirement." And effectively what that means is
3 that through retirement each of the target date funds will
4 have a higher allocation to equity.

5 And then we also were able to launch the 2060
6 fund.

7 Moving into our business update. So for 2017-18,
8 in addition to the asset allocation review, a large
9 component of that was the defined contribution review
10 wherein we worked with our consultant, RVK. They looked
11 at the demographics of the population and in the funds and
12 created a custom glide path specifically for our CalPERS
13 funds.

14 As well, we worked really closely with the
15 investment risk and performance team on implementation of
16 the global investment performance standards, also known as
17 GIPS, for several of the Affiliate trust.

18 And then looking ahead, for 2018-19 we've already
19 completed the implementation of the asset allocation. We
20 will be looking into the California Employers' Pension
21 Prefunding Trust. And It was recently signed by the
22 Governor. The legislation will go into effect in January.
23 And given that there's a ramp-up period to implement
24 something of that nature, we would be looking to launch
25 that in Fiscal Year 2019-20.

1 And then, lastly, we are -- this year we'll be
2 looking at implementing a fairly significant technology
3 upgrade with our systems provider.

4 So that concludes my prepared remarks. And I'm
5 happy to take any questions.

6 CHAIRPERSON JONES: Okay. Well, I see no
7 questions. So thank you very much for your presentation.

8 So we move on to Item 7b, Consultants Review of
9 the Global Equity Program.

10 Wilshire.

11 MR. FORESTI: Good morning. Steve Foresti --

12 CHAIRPERSON JONES: Your mike.

13 COMMITTEE MEMBER MATHUR: Your microphone, Steve.

14 MR. FORESTI: Good morning. It's always the
15 biggest challenge for me is getting the microphone turned
16 on.

17 (Laughter.)

18 MR. FORESTI: Good morning. Steve Foresti,
19 Wilshire Consulting.

20 I'm not working off of slides today, but I'll
21 make some comments summarizing the opinion letter that we
22 put together for the annual review, which I believe is
23 on -- in your deck is pages 343 --

24 CHAIRPERSON JONES: 44 and 45 -- 344 and 45.

25 MR. FORESTI: Right. So let me just take a

1 second just to talk a little bit about the process that we
2 go through.

3 We have throughout the course of the year, the
4 Wilshire team, has calls with senior members of the Global
5 Equity team. Those tend to take a pretty common
6 structure, which is to review any staffing issues, to talk
7 about portfolio positioning, to discuss performance, and
8 then any other miscellaneous items. So that's just an
9 ongoing conference call that we have with the Global
10 Equity team.

11 And then in preparation for the annual review, we
12 do a full onsite within the CalPERS offices, meeting with
13 again both senior members of the team as well as key
14 members of implementing the Global Equity strategy. So we
15 do that onsite this July.

16 And that all feeds a common research model that
17 we use, not just for this sort of assignment but in our
18 manager research process in general. So the evaluation
19 that we put together, which is on -- summarized on page 5
20 of the Wilshire letter, essentially goes through that
21 model. And it looks at functionally what we think are the
22 key components that every asset management, again whether
23 it's a private asset management firm or an asset owner
24 such as CalPERS, who's managing money and implementing a
25 portfolio, needs to go through. And it starts with a

1 review of the organization. There we look both at the
2 organization at large, which we would refer to as the firm
3 part of this scores, as well as the team.

4 The firm part of the score would be something
5 that as Wilshire looks across the various programs that we
6 review on an annual basis would be consistent across
7 those. So when we did the -- for example, the Global
8 Fixed Income review in September, my colleague Tom Toth
9 talked about that firm's score and how we had a reduction
10 in that score from the previous year was simply just
11 indicative of some of the high level turnover experienced
12 in CalPERS in the last year, and that's with the -- you
13 know, the departure of the CIO and a new CIO coming in
14 place and a change in leadership at the COIO position.

15 So that's something that took a slight step back,
16 which would be, you know, as we look at asset management
17 firms if we saw that sort of CIO level turnover would be
18 something that just creates a bit of organizational risk,
19 and that's reflected in the score.

20 You know, as these positions become stabilized
21 and integrated across the platform, that's an area that we
22 would see again as we see that stability in a year or so
23 ticking back up again.

24 But our current score, that was one place where
25 there was a step back.

1 When you combine the strength of the Global
2 Equity team with that overall organizational score, that
3 would be -- we would refer to that as if the -- our
4 scoring mechanism puts these across deciles. So if you
5 think about 10 tiers, with a 1 being the highest score,
6 top decile, for example, and a 10 being at the bottom;
7 overall, first two deciles we would refer to as an A, the
8 next two would be a B, et cetera. So overall a team
9 receiving a B, when that's coupled with the organizational
10 score that we discussed a couple of months ago, overall
11 org score would be a C.

12 All other components of the scoring - and that
13 would be information gathering and processing a portfolio,
14 forecasting, portfolio construction, implementation and
15 attribution, those are all highly scored at an A or a B
16 level. Our review of the program -- I should take a step
17 back because I think it starts with what the objective of
18 a program is. As Dan and team just described, the focus
19 here is a risk-controlled, low-tracking error, something
20 in the 50 -- from zero to 50 basis points of annual
21 tracking error, low cost implementation. So as we review
22 the program, how it's set up, the governance, the risk
23 controls, we're very much reviewing it against the
24 objectives that the program is designed to achieve. And
25 as we look across the portfolio, everything we see in

1 terms of the way the portfolio is structured is very
2 consistent with the objective of the program, namely,
3 again that low tracking, every targeted risk level and low
4 cost. So that shows up in places like index-oriented
5 strategies. Those would be the low-tracking error type
6 strategy as being a little over 60 percent of the
7 portfolio. Those are also, by the way, very low cost for
8 implementation. Also, the program being designed with 80
9 percent or so internally managed, that obviously is a way
10 to keep the costs and maintain controlling over the
11 program.

12 So when you look across that process at all, it's
13 very consistent with the objectives.

14 In staff's deck, I think it was page three, where
15 Dan and team shared the risk characteristics, much of what
16 we've seen in terms of implementation of the strategy in
17 the past handful of years is some shifts from traditional
18 active type of approaches just to some more of these
19 systematic, they're referred to in the category of
20 alternative beta, but alternative beta strategies, which
21 squeezes out of some of the systematic elements that you
22 sometimes find in traditional active management but
23 delivers them in more targeted strategies that are fee
24 appropriate for the exposures and the risks that are being
25 taken. And you see that again with the value tilt that

1 the program had, you see it in some of the other
2 quality-type measures. So those are very intentional
3 systematic and targeted exposures.

4 We do note in our letter one of the I think
5 strengths of the program is portfolio construction and the
6 rich set of risk tools that the team has at their
7 disposal. I think you saw a little bit of that today.
8 But there's a really deep set of other analytics
9 underneath that, you know, including down to
10 characteristics about ESG measurement.

11 We did note in our letter the performance that
12 was referenced by staff in the fourth quarter of the
13 fiscal year where some of those defensive tilts really
14 worked against the portfolio. Indeed, all of the 40 basis
15 points of underperformance were realized in that quarter.
16 Again, that was not, you know, a failure of a risk system
17 or something that was unforeseen. That was a very
18 intentional position put in place by staff. It didn't
19 work out in that particular period of time. It certainly
20 in recent weeks here it's probably working out very
21 positively for the portfolio.

22 But that's a thing that -- I think that is
23 something, as we noted in the letter, to keep an eye on
24 just going forward. As much more of those tilts are
25 structural in nature, there has been a tick up in excess

1 returns. Our view there would be it's much more
2 indicative of the market environment and cycle that we're
3 in. Just a huge dispersion in recent months between using
4 one of those factors, growth and value. Probably not
5 something that's indicative of the type of risk you'd
6 expect from that factor going forward or over the long run
7 but really is materialized in the short run.

8 So something to keep an eye on again with the
9 structuring the portfolio, but nothing that's of
10 significant concern to us.

11 From our perspective we'd be more concerned about
12 unknown risks, risks that materialize by surprise rather
13 than something that was a known and understood position
14 within the portfolio.

15 One last comment I'll make. And we again
16 mentioned this within the context of the letter. At the
17 end of the previous fiscal year, so coming into the end of
18 the '16-'17 year, the execution services function, which
19 was formally a part of the Global Equity team, was moved
20 into a centralized function. That now falls under the
21 opportunistic strategies group. You know, that move to a
22 centralized function I think makes a lot of sense. It was
23 certainly supported by the Global Equity team. We simply
24 highlight it because as a centralized group, some of the
25 control that Global Equity had over that particular

1 function is obviously lost and now shared with the
2 organization at large, which simply just highlights a
3 potential issue in terms of prioritizing against other
4 program-wide interests. So that's not to highlight that
5 that risk has materialized anything important, but it's
6 just something to keep an eye on going forward as it gets
7 more integrated into the full organization.

8 With that, I'll pause and be happy to take any
9 questions you may have.

10 CHAIRPERSON JONES: Okay. Thank you very for
11 your comments.

12 Ms. Yee.

13 COMMITTEE MEMBER YEE: Thank you, Mr. Chairman.
14 Thank you for the review.

15 I have a couple of questions in your letter that
16 you reference. And one was the statement about bringing
17 some third-party services related to the Global Equity
18 in-house. And I wanted to see if you could elaborate on
19 what those might be.

20 MR. FORESTI: So that was around some of the
21 proxy voting and some of the activities around those
22 functions where some third-party organizations are
23 leveraged upon, and by separating the functions. So if
24 you go back a couple of years where these functions were
25 all underneath one team and they were kind of split

1 between Corporate Governance now and the Global Equity
2 platform. There's a sense among the team that they will
3 be able to bring some of those activities in-house and
4 potentially, you know, save in external costs. But it's
5 around proxy voting and those sorts of elements.

6 COMMITTEE MEMBER YEE: Okay. That's good. Thank
7 you.

8 And then you also noted that the staff do access
9 data through MSCI and Sustainalytics with respect to the
10 global companies and those are measured on each of the
11 three ESG components. And I was curious as to whether the
12 process used for that also applies to -- can be
13 incorporated into our passive index investments as well.
14 Or is that just...

15 MR. FORESTI: Well, you know, I think it can be
16 applied anywhere. The main use at the moment is working
17 with external providers in terms of understanding a
18 rationalization for specific positions in a portfolio. So
19 the way these -- the comment you're referencing within the
20 letter specifically speaks to monitoring where there are
21 exposures and potential issues, and then engaging with
22 managers who hold that position. To understand the
23 rationale for the position and really challenge that
24 rationale.

25 It certainly could be applied on the index side

1 of things. But typically those are rules-based
2 implementation, so it doesn't have direct application.
3 Where it might have application would be on tilted type of
4 strategies. And perhaps you heard about a couple of the
5 ESG-focused strategies that were implemented this past
6 fiscal year. But I think more application there.

7 I did comment that along with the rich data set -
8 you saw elements of it - the two providers you mentioned
9 on the ESG side, Sustainalytics and MSCI, those are just
10 more statistics that the team can look at in terms of
11 whether it's a targeted level. And there are some data
12 issues when it comes to ESG data, that this is not uniform
13 across vendors in terms of what stats appear. But you
14 can -- you can kind of monitor those -- those exposures
15 through time; and to the extent that there's a preference
16 to tilt in certain areas and indeed some of the structural
17 implementation that you have, namely, you know, some of
18 the divestment programs that have been approved by the
19 Board, that would show up in some of those statistics.
20 But the comments in the letter were more about engagement
21 with external vendors in terms of holding positions, that
22 might show up on any ESG type of risk dashboard.

23 COMMITTEE MEMBER YEE: Great. Thank you.

24 CHAIRPERSON JONES: Yeah. The low letter grade
25 for firm in your report, is that primarily due to our two

1 managing director vacancies? And also the poten -- the
2 leaving of the CIO, is that included in this low grade?

3 MR. FORESTI: That's all included. So that grade
4 from the previous fiscal year in our scoring moved from a
5 C to a D. The C is the -- just by virtue of comparing the
6 structure of CalPERS, the ownership structure, the
7 incentive tools that are available to the organization
8 versus some of those incentive tools that are available to
9 private asset managers. So that -- that's a part of the
10 previous scores. What reduced the score from the C to D
11 is purely that level of turnover, at CIO level and COIO
12 level. Again, and that's something that, you know, as we
13 move forward in things, stabilize and get integrated, I
14 would very much expect to see that again -- if we see the
15 stabilization, expect to see that tick back up again.

16 But part of it is a big contributor, just the
17 structure of a public organization such as CalPERS
18 compared to peers. And that essentially is just some of
19 the challenges in terms of attracting and keeping staff.

20 CHAIRPERSON JONES: Okay. Thank you.

21 Ms. Mathur.

22 COMMITTEE MEMBER MATHUR: Thank you.

23 I noted a couple of -- thank you for your memo.
24 It really helps to have -- one of the things that I really
25 appreciated about it is that you highlighted some of the

1 sort of strengths of the program and some of the
2 challenges.

3 One of the things that I particularly appreciated
4 was, on page 7, you say the collaborative process promotes
5 a consistent, thorough, and objective analysis of
6 investment decisions and provides input, independent
7 advice, and perspective to the MID to reach an informed
8 decision concerning multiple points of view. And that is
9 exactly what we want to see is a respect and consideration
10 of a diversity of views, good discussion and deliberation,
11 and ultimately strong decision making. So I appreciate
12 that that's happening in this asset class and this
13 program. And I thank you for highlighting that to us.
14 Because obviously that's something that we, as the Board,
15 we can't be in there every day seeing how the -- how the
16 sausage is made, and it's really useful to get that
17 feedback.

18 So that's really what I wanted to say. Thanks so
19 much.

20 MR. FORESTI: Sure. If I could just make one
21 comment on that.

22 COMMITTEE MEMBER MATHUR: Yes.

23 MR. FORESTI: You may recall I think it was two
24 years ago in our review one of the points of focus that we
25 had in terms of a potential risk was very much around the

1 Committee structure that was set up. And the GE program
2 is essentially run -- the decision-making framework is
3 through a global equity, Capital Allocation Committee,
4 then subcommittees to that. And that was being put in
5 place a couple of years ago. And we just had concerns
6 that it -- it didn't seem very well defined.

7 And in last year's review we actually noted that,
8 as a point of improvement because we saw, A, some
9 structure come around that, and in retrospect as we look
10 back at it, I think some of what we saw that we had
11 flagged was very much intentional by the MID and other
12 senior leaders to draw other colleagues from the Global
13 Equity team into the decision-making process and provide
14 opportunity to contribute, in a meaningful way. And then
15 through time - and it's been a couple of years now - that
16 has formalized to a more I think stable subcommittee
17 structure where there's involvement, not just from people
18 in GE but there's involvement on these committees from
19 some of the other asset class programs. So again that was
20 something we flagged as a potential risk a couple of years
21 ago that I think is really stabilized and is a strength of
22 the organization at the moment.

23 COMMITTEE MEMBER MATHUR: Terrific. Thank you.

24 CHAIRPERSON JONES: Yeah, one other question on
25 the letter.

1 On page two, under "Overview," you call out
2 additional monitoring needs to occur to determine whether
3 it's merely a reflection of anomalistic versus symptomatic
4 outcome of events in terms of our risk level taken.

5 Could expand on what kind of monitoring you're
6 talking about.

7 MR. FORESTI: Sure. So, Mr. Jones, that's
8 consistent with a comment they made earlier about, you
9 know, some of these factor tilts, and the way that those
10 intentional positions have actually led to excess return.
11 And again in the fourth -- fiscal year fourth quarter led
12 to negative excess returns.

13 Now, those month-by-month variances seem very
14 large, and indeed they are against a program that
15 otherwise has been running well below its tracking error
16 limit. So we're just highlighting that since those
17 variances have materialized and they look like things that
18 are extreme, we think it's more that the market
19 environment that we're in right now is extreme in terms of
20 the relationship between some of these factors and how
21 volatile they are against their kind of expected history.
22 That being said, we didn't want to discount it. So we're
23 just flagging that is something to monitor, which is to be
24 very specific about it, the risk estimates versus the
25 realized risks. And since these positions are being very

1 intentionally taken on some of these alternative betas,
2 just monitoring the ability of the system to predict
3 tracking are just something important to watch. Now, you
4 know, our sense would be that some of what we've seen in
5 the recent past is extreme because of what's going on in
6 the market rather than a failure of a risk system. We
7 just merely flag it because its something to keep an eye
8 on going forward. That's all.

9 CHAIRPERSON JONES: Okay. And does that chart on
10 page 3, Exhibit 2, is that -- does that reflect the
11 comments that you just made in terms of the tracking
12 error?

13 MR. FORESTI: It does. So that reflects -- I'm
14 glad you noted that because that does reflect that over
15 kind of any reasonably longer term period of time - and we
16 show this 3-year roll - you see that the program has
17 stayed well within that 50 basis points or less of
18 tracking error. You know, albeit, it has ticked up in
19 this recent past. But absolutely. So even with this tick
20 up, in a rolling 3-year basic, this tick up being over the
21 last year or so, it's still well within that tracking
22 error.

23 Now, should what we've seen in the last six
24 months or so continue for the next three years, then I
25 would expect that line to come over the 50 basis points,

1 which is precisely kind of what we're highlighting. I
2 would not anticipate that we see that. But, look, maybe
3 markets have changed and they're -- we're just
4 systematically in a different regime. I think that's
5 probably unlikely, but that's precisely what flagging.

6 CHAIRPERSON JONES: Okay. Thank you.

7 Ms. Taylor.

8 COMMITTEE MEMBER TAYLOR: Yes, thank you.

9 As you guys were talking earlier, I just wanted
10 to ask again. So the low score is because of the
11 turnover -- partially because of the turnover we're
12 experiencing right now. And you said you would -- or kind
13 of given us a low score last year as well. You moved from
14 a C to a D. Is that correct that I heard earlier?

15 MR. FORESTI: Right. So at the firm level. So
16 that's one component of the overall organization support.

17 COMMITTEE MEMBER TAYLOR: Right.

18 MR. FORESTI: Last year we scored that component
19 as a C. So think about that as median.

20 COMMITTEE MEMBER TAYLOR: Oh, and you moved it
21 from a C to a D.

22 MR. FORESTI: It moved from a C to a D entirely
23 because of the issues with senior level turnover.

24 COMMITTEE MEMBER TAYLOR: Great.

25 MR. FORESTI: The C is not -- I wouldn't

1 characterize the C as a transient, something that we
2 really expect to change. But moving, you know, again as
3 we see things get integrated and stabilize, very much
4 would expect if things progress the way they're expected
5 to, that that's -- that D would return to a C at some
6 point in next year or two.

7 COMMITTEE MEMBER TAYLOR: And you had said
8 earlier too that you didn't expect that C to change. So
9 we don't make it up to a B or an A because? Any specific
10 reason?

11 MR. FORESTI: You know, that's just an -- and
12 it's -- it has to do mainly with just the organizational
13 structure and those incentive packages that are available
14 to CalPERS.

15 COMMITTEE MEMBER TAYLOR: Oh, okay.

16 MR. FORESTI: This has been a issue that we talk
17 about every year, and it's not --

18 COMMITTEE MEMBER TAYLOR: It's compensation.

19 MR. FORESTI: You know, you can look at the staff
20 members that come in front of you all the time, and you
21 see some of the high quality people in the industry. So
22 it by no means suggests that attracting, you know, top
23 tier individuals in this industry can't be done. Indeed
24 it can. It's just that, look, let's face it, there are
25 people out there that are going to be attracted by one

1 thing and one thing only. And they might not be
2 available, you know, to CalPERS or at least maybe not to
3 stay here for the long haul. We're just simply
4 highlighting that risk. It's not a -- you know, it's not
5 an unsurmountable risk. We just highlight it because it
6 is indeed a risk and it's a competitive -- I don't if
7 disadvantage is the right word -- but it's a competitive
8 issue in terms of attracting and retaining talent.

9 COMMITTEE MEMBER TAYLOR: Okay. I understand
10 that. I didn't --

11 MR. FORESTI: We're not putting here forth that
12 there's something you can do to change that. And, indeed,
13 I think there's been -- you know, we talked a little bit
14 about the committee structure. There's other ways beyond
15 some of these compensation packages to attract people that
16 have diverse interests in terms of the quality of work
17 that they do and the involvement and their ability to
18 influence and contribute to a process. And I would
19 commend staff for taking full advantage of those and
20 making it a -- you know, a very I think rewarding place to
21 work and contribute.

22 COMMITTEE MEMBER TAYLOR: Yeah, I will reiterate
23 that as well. I think that the folks that we have here
24 who aren't getting the millions of dollars that they could
25 get on Wall Street are here for a service to the State of

1 California, and I do appreciate that work that you guys do
2 every day.

3 I also had one other appreciation that I wanted
4 to give to Global Equity and to Wilshire. One of the
5 paragraphs here was talking about our ESG scoring
6 component. And as a key metric demonstrating evidence of
7 progress - I thought that this was amazing - the 95
8 percent of programs' external partners, internally and
9 externally managed strategies, currently have established
10 ESG policies up from 20 percent. That's amazing. So
11 thank you all for your work in implementing our strategy.

12 Thanks.

13 CHAIRPERSON JONES: Okay. Thank you. That
14 concludes that item.

15 MR. FORESTI: Thank you.

16 CHAIRPERSON JONES: The next item is Private
17 Equity Annual Program Review. And I would -- before we
18 begin the Private Equity Program Review I want to remind
19 the Committee that there's a separate closed session item
20 to discuss the Private Equity business model.

21 MANAGING INVESTMENT DIRECTOR BAGGESEN: Sure.
22 The private Equity Program Review will be conducted by
23 Sarah Corr and Mahboob Hossain. And also John Cole will
24 be joining that to provide some comments after Sarah and
25 Mahboob do their commentary on the outcome of the program

1 recently. John will be giving that forward point of view.

2 (Thereupon an overhead presentation was

3 Presented as follows.)

4 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Good
5 morning. Sarah Corr, Investment Office staff. I'm joined
6 by my colleagues, Mahboob Hossain and John Cole. Today I
7 will walk through the performance of the Private Equity
8 Program, some portfolio characteristics, and recent and
9 upcoming activities.

10 Mahboob will provide a high level overview of the
11 current working environment. And, finally, John will
12 provide an update on CalPERS current thinking about the
13 strategic business model for Private Equity.

14 Before I begin I would like to acknowledge the
15 efforts of the broader Private Equity team in preparing
16 this agenda item.

17 Additionally I would like to thank the Private
18 Equity team for the focus and dedication of implementing
19 the business plan despite numerous distractions throughout
20 the year.

21 What we see here before you is the support of 30
22 people across the street that allows the Private Equity
23 Program to operate effectively.

24 --o0o--

25 INTERIM MANAGING INVESTMENT DIRECTOR CORR:

1 Moving to the fiscal year performance. While on
2 an absolute basis the performance was strong for the
3 fiscal year at 16 percent, the return did not exceed the
4 policy benchmark. However, as a long-term investor and a
5 long-term asset class, it is important to take a longer
6 view and to take into consideration the role of the
7 Private Equity within the strategic asset allocation.

8 The role of the program is to enhance the Total
9 Fund equity return. In all time periods the performance
10 exceeded the expected return for the asset class, as well
11 as the Global Equity benchmark. In the 10-year, the
12 Private Equity Program exceeded Global Equity by 230 basis
13 points, and in 20-year by 460.

14 --o0o--

15 INTERIM MANAGING INVESTMENT DIRECTOR CORR: I'll
16 now show the portfolio characteristics. The Private
17 Equity portfolio is largely exposed to the buyout
18 strategy, which has consistently been the best performing
19 strategy within the portfolio. Over the past few years
20 the allocation to the credit strategies has come down.
21 This is the result of private credit strategies now being
22 covered by opportunistic. It is likely this allocation to
23 buyout will continue to increase over time. As you may
24 recall the Private Equity policy was revised in August to
25 reflect the changing position of the portfolio. The

1 target to credit was decreased by 5 percent and buyouts
2 was increased by a similar amount. Those new targets are
3 reflected on this slide.

4 I will now turn it over to Mahboob to discuss
5 some dynamics of the current market environment.

6 --o0o--

7 INVESTMENT DIRECTOR HOSSAIN: Thank you, Sarah.

8 This is Mahboob Hossain, Investment Director,
9 Private Equity.

10 I'll start with some comments on the market from
11 slide 4. And then our capital allocation from slide 5,
12 with some additional highlights from slides 18 and 19.

13 To start with the market. Overall environment
14 continues to be very conducive for fundraising. And
15 valuations are quite high for transactions being
16 completed.

17 Many institutions are increasing their capital
18 commitments. And managers are also raising bigger and
19 bigger funds. However, record fund raising has created
20 some overhang in the market. And according to some
21 estimates, there is about a trillion dollars of committed
22 but uncalled capital.

23 It should be noted that the market has also been
24 very robust for liquidity, and CalPERS Private Equity
25 portfolio has generated about 3 to 4 billion dollars of

1 Program.

2 The second report will be provided to this
3 Committee next month.

4 A significant milestone that was achieved during
5 the fiscal year was the implementation of PEARS. After
6 four years all the agreed-upon functionality was
7 implemented. While the implementation is complete, staff
8 will continue to work with the vendors to augment the
9 functionality and reporting available to staff to enhance
10 the investment analysis during the investment
11 decision-making process.

12 Looking forward, areas of focus for the current
13 year, staff has a full list of objectives. Aiming area of
14 focus will be a collaborative effort between Private
15 Equity, Global Equity, Total Fund portfolio management,
16 and investment risk and performance to develop an
17 operating model implementing a holistic approach to the
18 growth segment, which will include aggregating exposures
19 across both private and public equity.

20 As Mahboob mentioned earlier, the program's on
21 track to commit an allocation of up to \$6 billion.
22 Evaluations are currently close to all-time highs. In
23 private markets it's important to remember that the
24 commitments that will be made today will be invested over
25 the next five years.

1 While we do not have a crystal ball, we are nine
2 years into a bull market. It is more likely than not that
3 a portion of currently uncalled capital will be invested
4 in more favorable multiples.

5 CalPERS continues to collaborate with an
6 investment -- institutional limited -- on a number of
7 initiatives.

8 Staff has been involved in the creation of a
9 portfolio company reporting template, which is currently
10 out for comment and has not yet been launched.

11 Additionally, staff participated in the
12 development of guidelines creating a code of conduct
13 organizations can use to create policies related to
14 harassment, discrimination, and workplace violence.

15 Finally, the ILPA due-diligence questionnaire was
16 enhanced to incorporate questions related to diversity
17 inclusion with the investment Office staff of external
18 managers.

19 I will conclude my remarks by stating it's been a
20 busy and productive year for the private Equity Program.
21 A significant area of focus that has not been commented on
22 yet is a strategic business model for private equity.

23 I will now turn it over to Ted for a brief
24 comment before he gives an update to the Committee.

25 CHIEF INVESTMENT OFFICER ELIOPOULOS: Great.

1 Thank you so much, Sarah. Sarah and Mahboob, I just want
2 to thank you both for your leadership of this Private
3 Equity Program over the course of the last 18 months,
4 during a time of, you know, important review and strategic
5 thinking by this Committee and our entire organization,
6 our entire staff about -- thinking about ways we can
7 invest in addition to our traditional model of investing
8 in private equity. And the work that Sarah and Mahboob
9 have done in running the traditional model of private
10 equity investing has been exemplary. You can see the
11 amounts of capital that they've been able to put out in a
12 steady and risk-aware manner over the course of the last
13 18 months. They've actually been able to increase not
14 only our capital commitments and access to the strategic
15 partners that we have, but I believe over the course of
16 the last 18 months we've been in just about every first
17 closing, which shows just a big uptick in efficiency in
18 how the staff operates, and it really has to do with the
19 leadership of Sarah and Mahboob overseeing this program.

20 John has a really good I think summary he's about
21 to give you in terms of an update on, you know, the
22 business model. Looking at the four pillars that we've
23 discussed before. And really pillars 1 and 2 are the
24 traditional private equity fund model, both the
25 traditional private equity general partners as well as our

1 emerging and transition manager program. And as you can
2 see, that work continues, our 20+ year history of
3 investing in that space continues and is really well
4 organized and well led within our Private Equity Group,
5 and will form the major substantial part of our Private
6 Equity Program going forward

7 What I thought I would do is just highlight what
8 we see as new in the pillars 3 and 4 that we're all
9 discussing and have been discussing; but what new things
10 can we add into the Private Equity Program in order to
11 invest -- invest at greater scale and in different areas
12 than we traditionally have been able to. So I just wanted
13 to underscore three or four points of what's new about
14 what we've been talking about, and then really underscore
15 what's not new about pillars 3 and 4, you know, what's
16 really old and tried and true, and so that the Committee
17 can really understand the evaluation of pillars 3 and 4,
18 and think about the risks of the newness versus what's not
19 new in terms of these pillars.

20 In terms of what is new in terms of these new,
21 you know, pillars 3 and 4, and these are not a surprise to
22 this Committee. It's what we've been talking about for a
23 couple years now.

24 Number one, these pillars allow us to construct
25 partnerships vehicles, that had a long duration, much

1 longer than the traditional commingled fund. And they
2 allow us to create a partnership that we can set an
3 evergreen or indefinite investment horizon, which really
4 much more closely matches the long-term horizon of
5 CalPERS. That would be new versus the traditional
6 commingled funds that have a four-year investment cycle
7 and an eight-year time period versus a long -- much longer
8 duration period. And we get all the benefits of that
9 duration by thinking about these new strategies.

10 Number two, we're able to specify; for instance,
11 we've specified in pillar 3 a technology and life science
12 focus, and in pillar 4 we've really focused on the long
13 duration, real economy type companies. So we're able to
14 put a specified focus on what CalPERS investment
15 objectives are for our portfolio versus the trillion
16 dollars of dry powder that's out there which really the
17 Global Equity commingled fund is telling us what those
18 objectives are.

19 In these pillars 3 and 4, we're able to specify
20 what CalPERS wants within the portfolio much more
21 directly. That's new.

22 Number three, and really the last of the three
23 points, is we think we may be able to achieve better
24 alignment of interest. And that's why we say with
25 humility, may be able to. And principally, we have -- we

1 have the opportunity to create a partnership where we have
2 fees based on a budget versus assets under management.
3 And we think that is -- will provide better alignment for
4 CalPERS going forward.

5 We're also able to specify the incentive measures
6 that are more specific again to CalPERS objectives versus
7 what we might get off the rack in the commingled fund
8 offering.

9 So those -- those are really what's new about
10 these opportunities and what John will cover in pillars 3
11 and 4.

12 What's just as important I think is what's old
13 and tried and true for CalPERS. And that's the method by
14 which we would invest in pillars 3 and 4. And what we've
15 settled on is a partnership structure. Now, during
16 this -- during this journey over the last 18 months to two
17 years, together we've talked about lots of ideas and lots
18 of possibilities and alternative ways to invest in these
19 two pillars.

20 Could we create a company and own 100 percent or
21 part of the company? Could we bring this in-house? Could
22 we set up -- could we buy a company and own it as a
23 captive. And we looked at all of those and we -- what
24 really settled on is that the traditional partnership
25 structure, where you have a general partner and a limited

1 partner, is really the structure that we think is best
2 suited to -- best suited to pursue pillars 3 and 4 into
3 the future. And what -- what that means is, it's a
4 structure, a partnership structure that we've used
5 hundreds and hundreds of times over the last couple
6 decades in our Real Estate portfolio and our
7 Infrastructure portfolio, and in the traditional Private
8 Equity model.

9 Those commingled funds are structured as
10 partnerships where you have a GP. But you have many LPs.
11 And that's the second piece about what we're proposing, is
12 that this separate account partnership structure where
13 there's a GP - that we don't own - a GP and one limited
14 partner - CalPERS at least initially - is the structure
15 that we think works best for us going forward. And again,
16 that is something that we've experimented with - more than
17 experimented with - we've used quite deliberately in our
18 real estate and infrastructure program for over 20 years
19 now.

20 A separate account partnership agreement is
21 something that we have tremendous experience with, over
22 two decades of experience with. Our staff, our collective
23 Investment staff, our legal team, our compliance team, we
24 all have a lot -- decades worth of experience of working
25 in the form of a partnership agreement. It's really

1 nothing new to us, and it's actually more than that. It's
2 something quite established for CalPERS and it's really
3 right within the core competencies of our staff, and
4 investing through a partnership structure with a general
5 partner and an LP.

6 And, you know -- and the last piece of what's old
7 is what I alluded to at the beginning. We are going to
8 continue with the substantial investment in the
9 traditional private equity model side by side with these
10 two pillars 3 and 4 should the Committee ultimately, you
11 know, approve that strategy going forward.

12 So that from a risk standpoint, we'll have a
13 substantial portfolio of our traditional Global Equity
14 commingled funds -- our private equity commingled funds,
15 and we're looking to add two new types of partnerships,
16 one focused to technology, the other at long duration.
17 But those partnerships are forms that we're very familiar
18 with and have quite a substantial experience, as I said,
19 throughout not only Investment staff but throughout our
20 enterprise. And that's really what I wanted to
21 underscore. And I know that John has some more
22 information. And after -- maybe after John speaks it
23 might be time for Q and A.

24 CHAIRPERSON JONES: Okay. John.

25 INVESTMENT DIRECTOR COLE: Thank you. John Cole,

1 CalPERS staff.

2 Before I dive in and talk a little bit about it,
3 I wanted to share with the Committee the fact that I've
4 had the opportunity over the last couple of weeks to be
5 with stakeholder in stakeholder meetings where a chance to
6 describe what we have talked about in public session, most
7 recently in September, and also to have the opportunity to
8 respond to questions and hear what's on people's minds.

9 So what we hope to accomplish today is to fill in some of
10 those questions to make sure we address what we think have
11 been some misinterpretations or maybe lack of information,
12 that help us move along as a committee in your case and as
13 a staff in thinking about an execution phase.

14 So that's I think an important step. And what I
15 want to do is to follow on with that with my remarks here.

16 So I'd like to start by briefly reviewing what we
17 set off to do two years ago. And that was to take an
18 in-depth study and look at our strategic business model in
19 Private Equity.

20 Two years ago, as you'll recall, we were
21 completing our asset liability management process, the ALM
22 process, where we look out over 10 years to forecast
23 investment returns by asset class, and determine our total
24 fund strategic positioning for the next few years.

25 As you know, today our required rate of return

1 stands at -- or to be 7 percent and to pay the -- in order
2 to pay the promised benefits. And the funded ratio is
3 approximately about 71 percent.

4 Our ALM process resulted in forecasts by asset
5 class where only one had a projected return greater than 7
6 percent. That was Private Equity. In CalPERS Total Fund
7 our Private Equity proportion has gone down over the past
8 two years from a high of about 12 percent to now about 7.7
9 percent. That represents about \$28 billion invested
10 today. And that has been a result of committing at about
11 a \$5 billion per year rate over the past number of years.

12 At our current path, we will continue to trend
13 down as a percentage of the Total Fund. So at a time when
14 we would like to have a growing presence, we have a
15 diminishing one. The scale necessary to move back towards
16 10 percent, which would be our longer term goal in the
17 fund, translates into more than double our current
18 commitment rate.

19 Now, several questions arise. A lot has been
20 written generally about how much capital is going into
21 Private Equity and how high valuations are. And as
22 Mahboob pointed out, both are true. To the first point,
23 the overall Private Equity market is growing very quickly
24 due to a number of factors, including - and we've touched
25 on this I think at our offsite back in July, 18 months --

1 or more than 18 months ago - and that's that the number of
2 public companies in the United States is one half what it
3 was 20 years ago, and there's been a steady slide to get
4 to that level, roughly 3600 companies down from roughly
5 7200 companies.

6 And also, the number of companies that are
7 private and have chosen to stay private has grown
8 dramatically. And along with that, the size of companies
9 that are private has also expanded dramatically. They --
10 we've referred to the term "unicorns." That's companies
11 with a market capitalization greater than a billion
12 dollars. There are now hundreds, not only in the United
13 States, but in China and elsewhere around the world.

14 So the opportunities and the implications for
15 our -- particularly our innovation direct investment
16 vehicle, which would be focused on the nexus of
17 technology, life science and health care, are very
18 positive around those developments that have been
19 occurring.

20 As to the high valuations, we are very aware, and
21 reminded by experience. CalPERS in 2006 and 2007 chose to
22 permit -- to commit very large amounts of capital that was
23 put to work just in front of the great financial crisis.
24 And we suffered the consequences. Learning from that
25 experience, it's our intention at this stage to be

1 prepared for the inevitable end of this cycle. As Ms.
2 Mathur pointed out early on, we don't know when and we
3 can't have confidence in predicting. But we do know that
4 what it means is that we need to be ready to invest with a
5 team in place, having established relationships, and ready
6 to take advantage of market disruptions. And if we're not
7 there in advance, we'll be unable to do that.

8 That all must be done in advance, and that's why
9 now is an opportune moment to get ready.

10 More. More as to why. We're seeking higher
11 returns. We are willing to accept some higher risks but
12 in a very targeted fashion. So that consideration that
13 Ted described that we've undertaken over the last two
14 years has been very focused on identifying where risk
15 makes sense for us, where we supplement our current access
16 to the private equity market and where combined we can
17 create a larger amount of capital providing higher
18 returns.

19 We want to better align our interests with
20 general partners who can in this instance -- and I'm now
21 talking specifically about pillars 3 and 4, that is what
22 we've referred to as our direct investing approach.
23 General partners in these two areas would serve the
24 mandate that we have determined. It would be very tightly
25 defined, including incorporating processes around our

1 values, our beliefs, our principles, and most importantly
2 the objectives that we want for the funds and their
3 investing.

4 A great contrast being in the traditional world
5 where general partners have -- where our relationships are
6 primarily through commingled funds, which have dozens,
7 literally dozens of limited partners, and a term that
8 tends to result on a focus on the shorter term horizon,
9 several years, again as Ted noted.

10 And therefore a playbook that often emphasizes
11 the use of leverage and paying out dividends quickly and
12 early, cuttings costs, and often selling assets. Those
13 are part of what comes with a shorter time horizon and
14 have been present in the -- broadly in the private equity
15 world. And there's an effective place for that. It makes
16 companies better over time, but it is not the sole way to
17 create value.

18 In our horizon entity for direct investing, by
19 having no fixed term, no time when we put pressure to have
20 to sell to realize the end of a contract period, we are
21 incenting behavior that results in long-term value
22 creation and promoting growth - growth focusing on
23 investing in the business, investing to maintain
24 competitive advantage versus technology disrupters, and by
25 expanding into new products and new geographies that over

1 the long run create jobs, generate cash flows for
2 long-term dividend and build sustainable contributions to
3 society and to the customers.

4 With that as prologue, allow me to describe what
5 we've learned.

6 Over the past two-year period we've come to
7 appreciate the need for evolution at CalPERS in order to
8 address our need for large scale investing; the need to
9 anticipate the changes that we expect, in fact believe,
10 are coming in the private equity business; and the need to
11 put ourselves into a strong competitive position that
12 takes advantages of our strengths and addresses some of
13 our challenges as a public -- large public organization.

14 We come to this without a desired outcome except
15 to build a structure and strategy that is durable,
16 supported by the organization, and allowed to succeed.

17 Here's how our thinking has evolved. The baseline is
18 that today most of our private equity assets are again, as
19 you know, in large commingled funds. We have reduced the
20 number of general-partner relationships from several
21 hundred to about 90 today and a target of about 40. We
22 think that makes sense in order not to dilute our impact
23 and, as a result, the returns from the entire Private
24 Equity portfolio.

25 Virtually all that we now commit goes to this

1 model and, as I mentioned, averages about \$5 billion per
2 year.

3 We also have now, and have had, an emerging
4 manager program in place for some time, over a decade, and
5 which is a couple hundred million dollars in size. And
6 that's it. That's basically, simply stated, what exists.

7 Prospectively we've identified four pillars to a
8 private equity strategy that would provide for an
9 evolution and to increase the scale. First, to maintain
10 an emerging manager program that promotes new blood and
11 new thinking in the industry. Yes, the fees are higher,
12 and we do pay a fund-of-funds advisor in order to work for
13 us in the marketplace. But we can learn much and support
14 this initiative in the investors of the future. And we
15 think that's a worthwhile endeavor and pays long-term
16 dividends to the fund.

17 This program will grow a bit, but still be a
18 small part of the total portfolio; in fact, less than \$500
19 million of the total.

20 Next, pillar 2 is the traditional general partner
21 world of commingled funds, where we have a little
22 negotiation leverage and even less control over the
23 investments made and the governance employed.

24 We've learned a lot here. A year ago, we thought
25 maybe the best -- it would be best to find a large partner

1 in a discretionary role to help us identify good funds,
2 and to expand our relationships to include more
3 co-investing and access to secondary transactions.

4 We found six outstanding organizations and issued
5 an ASP, alternative solicitation. And those organizations
6 who might serve in that role were outstanding and are
7 outstanding. But we have come to the realization after a
8 lot of analysis and discussion that the structure is
9 unlikely to meaningfully strengthen our position.

10 So as we complete our search, which will be in
11 early 2019, for a permanent head of our Private Equity
12 team, we will re-examine our options under pillar 2, and
13 consider whether an advisory role in order to supplement
14 our own capabilities is more appropriate and will allow us
15 to extend our -- both our resource reach and our capacity
16 best.

17 That analysis will occur during the first half of
18 2019, and we'll be back to talk about that at the
19 appropriate time.

20 We expect to continue to access commingled funds
21 for the foreseeable future, while adding co-investing to
22 the mix, probably in a similar total range as today,
23 rough -- say 5 to 7 billion dollars in commitments a year.

24 Our third and fourth pillars are establishing
25 independent captive investment vehicles that have very

1 specific purposes. And by captive, I simply mean that
2 there is a single general partner, and we create -- or we
3 participate as a single limited partner in that vehicle.

4 They are importantly meant not to compete with
5 our existing general partners, but in fact might likely
6 work together in some instances. And that's why the focus
7 of and attention to what the mandate is is so critical in
8 building the supplement to our existing program.

9 They together are referred to as -- we've
10 referred to as CalPERS Direct, with a third pillar
11 referenced as Innovation, being an entity dedicated to
12 late-stage venture capital at the nexus of life sciences,
13 health care, and technology.

14 We expect it to be a vehicle that will invest at
15 a rate of 1 to 2 billion dollars in commitments annually
16 and grow to roughly \$10 billion over a decade.

17 The fourth pillar is -- that we've referenced is
18 referenced as Horizon, which will be focused on core
19 economy companies that with durable business models
20 capable of attractive cash yields over time, with the
21 opportunity to grow revenues by taking advantage of longer
22 term investments and a platform approach to building the
23 portfolio.

24 This vehicle we expect would invest in larger
25 amounts and likely less frequently, but -- and as a

1 result, likewise would be an entity that grows to also
2 somewhere in the neighborhood of \$10 billion over the
3 course of the next decade.

4 Both vehicles would employ an operations
5 approach, an active supplying of support to help our
6 portfolio companies' investments grow and adapt. Both
7 vehicles would be designed with no fixed term, thus not
8 requiring a short-term payoff for returns or a necessity
9 the sell at a specific point in time.

10 They would operate independently of CalPERS, with
11 a clear definition of their mandate, routine interaction
12 with senior CalPERS staff - I'm talking about the CIO, the
13 COIO, the head of sustainability and head of private
14 equity, at a routine basis, and their own board of
15 advisors which would be focused on:

16 Advising the management team about adherence to
17 the CalPERS mandate;

18 Advising on succession planning, so that we can
19 keep these vehicles as perpetual entities if they work as
20 we intend them to;

21 Reviewing an appropriate operating budget to make
22 sure that what would have been paid in management fees is
23 paid simply in the amounts necessary to operate the
24 business;

25 And providing General Counsel and advice on

1 sourcing and other matters.

2 We feel this buttresses the overall governance;
3 and it reflects the types of partnerships that we've had
4 over the past 20 years, and we've learned a great deal
5 from, particularly in Real Estate portion of our
6 portfolio.

7 So in summary, the key to success of pillars 3
8 and 4 is to attract and retain very talented
9 professionals, meaning to find philosophical alignment and
10 to create competitive and compelling economic incentives.

11 The combination of these four pillars will
12 provide CalPERS:

13 The capacity to invest in scale and incrementally
14 to the way that we've grown our portfolio to date;

15 The opportunity to take advantage of economies of
16 scale, so as the assets under management, the vehicles,
17 grow, the rate in which we pay and therefore fees over the
18 long run we would expect to be -- would -- to go down, to
19 diminish relatively; and a chance to create evergreen
20 structures, that incent private equity investing that
21 doesn't just use the playbook that pulls out leverage and
22 cost cutting, but focuses on long-term investments and
23 growth.

24 We get the chance to embed our values, our
25 beliefs, our principles, and we distinguish ourselves in

1 the marketplace as purveyors of patient, long-term capital
2 investors.

3 So that concludes my remarks. I'm open for
4 questions for the team.

5 CHAIRPERSON JONES: Okay. Well, thank you very
6 much for that report and update. And also we'd like to
7 thank you and others for reaching out to our stakeholders
8 and answering their questions regarding pillars 3 and 4
9 primarily. And I understood that that went very well.
10 And I think we need to have that dialogue with our
11 stakeholders going forward.

12 And, Sarah, thank you for managing a successful
13 program of Private Equity. And the returns look good and
14 you beat everybody else.

15 So congratulations on that.

16 So with that, Mrs. Mathur.

17 COMMITTEE MEMBER MATHUR: Thank you.

18 Well, first, I also want to add my thanks to you,
19 Sarah, Ms. Corr, for leading this team so ably and over
20 the last -- I don't know, it's been a long time now, 18
21 months, in a period of such uncertainty. I think it's
22 really remarkable how effective you have been and the team
23 has been in diligently allocating capital during this
24 really challenging period. So I'm really grateful for
25 your leadership and to the team for coming together around

1 it.

2 And the PEARS implementation is such a milestone.
3 It's quite an accomplishment. I know it's been a long
4 road, but I think it's really important for CalPERS and
5 for the market to have better transparency around fees and
6 investment analysis.

7 I did have a question about the ILPA role out of
8 the New Portfolio Company Reporting Template, which I
9 think is an important next step. ILPA -- we've worked so
10 closely with ILPA for many years now to improve how this
11 market functions -- this private market functions. And I
12 think this is important.

13 My question for you about it is, does the new
14 reporting template incorporate material ESG risks as --
15 for example, such as the risk and factors such as the
16 metrics that SASB has developed?

17 INTERIM MANAGING INVESTMENT DIRECTOR CORR: There
18 are a few ESG-related questions in there. The template
19 was recently put out into the public domain for comment,
20 and there was some comment back that there should be some
21 more ESG-related items in there. And that's under review
22 right now. So a new version of the template will be
23 distributed most likely in the beginning of '19.

24 COMMITTEE MEMBER MATHUR: Okay. I do think --
25 you know, we've been such a strong supporter of SASB, and

1 I think that material financial -- reporting financial
2 risks that are related to environmental, social, and
3 governance factors are important for the long-term
4 performance of companies, whether they are public or
5 private. So I would encourage us to support the further
6 deepening of that in the template.

7 So I thank you for that.

8 And with that, I'll conclude my questions. Thank
9 you.

10 CHAIRPERSON JONES: Mr. Rubalcava.

11 COMMITTEE MEMBER RUBALCAVA: Thank you, Mr.
12 Jones.

13 Thank you again for the presentation. Each time
14 I come I appreciate all the work that your staff -- that
15 Sarah's staff does. They're professionals. And this area
16 of private equity is always very intriguing to me. I'm
17 learning.

18 I had a question on -- through the presentation
19 on the program performance of you, Sarah. Chart number 2
20 is very robust returns. But there was a comment made that
21 it was below the benchmark. But I notice in the appendix,
22 that the bench -- this is as of June 30th -- this return,
23 June 30th, 2018. But July 1 there's a new benchmark. So
24 if you could explain to me how that new benchmark would
25 have impacted this. And why was there a change in the

1 benchmark?

2 INTERIM MANAGING INVESTMENT DIRECTOR CORR: So
3 I'll start and Eric can jump in if you want to.

4 The benchmark was changed during the asset
5 liability management work that was done last year. It
6 moved from being two-thirds U.S., one-third rest of world
7 to being the same as the Global Equity benchmark of market
8 cap weighted. And the premium was changed from 300 down
9 to 150.

10 In the benchmark though it will continue to have
11 the old benchmark in it. And then the new benchmark will
12 show up for the monthly returns going forward.

13 But all the historic will keep the historic
14 benchmark in there.

15 You know, U.S. has outperformed the rest of the
16 world recently, and so the benchmark market cap would be
17 slightly lower than it is with the two-thirds/one-third
18 combination.

19 Eric.

20 MANAGING INVESTMENT DIRECTOR BAGGESEN: Let me
21 offer a couple more comments, Mr. Rubalcava, in relation
22 to that.

23 One of the reasons for changing the benchmark
24 structure is a recognition that Private Equity -- the
25 opportunity cost of investing in Private Equity is Public

1 Equity. So basically the benchmark represents the
2 opportunity cost. Historically the benchmark used in
3 Private Equity actually tried to express some kind of a
4 risk profile. But honestly, private equity is not capable
5 of managing the risks that engender to the kinds of
6 investments that get made there.

7 So, one of the things that we've been working on
8 is, in an effort to try to merge private and public
9 equities, one of those -- one of the planks of doing that
10 merger is to actually harmonize the benchmark structure
11 and acknowledge the fact that this basically represents an
12 opportunity cost more than a risk profile.

13 But one of the reasons for merging the two areas
14 together is to try to be able to understand what risks
15 emanate from the Private Equity Program that are
16 intentional from the managers.

17 So in other words, you have managers that invest
18 in the Private Equity space, and they may invest in
19 economic sectors that they understand the businesses in
20 those sectors very well. But when you allocate capital to
21 those managers, you're creating a tilt in your portfolio
22 towards those economic sectors. Those managers typically
23 do not believe that they are going to make their exposure
24 in that sector perform better than the rest of the entire
25 marketplace. They're trying to make better performing

1 companies within that sector.

2 So it's this trying to distinguish exactly which
3 risks are intentional and risks that are appropriately
4 accountable to an individual decision process, whether
5 it's an external manager or an internal decision.

6 But literally the attempt is to try to separate
7 those out. And where we have risks that are just a
8 fallout of managers doing business in certain sectors,
9 then we potentially want to offset those risks so that we
10 don't end up with a bet that is actually not accountable
11 to anyone making a specific judgment about it.

12 So it's a subtle nuance. But in order to really
13 harmonize these programs and really think about this risk
14 management on a wider basis, you actually need this
15 harmonization of the benchmark structure, and it literally
16 represents the opportunity cost.

17 So that's the sort of global capitalization
18 weighted relative to the U.S. tilted versus international.

19 But the hurdle rate for Private Equity also has
20 been changed in the benchmark structure. And that hurdle
21 rate -- you can debate how these calculations should be
22 done, but the expectation for Private Equity has always
23 been that it would outperform the public markets by
24 approximately 300 basis points. But that's -- this is
25 where you get into different kinds of mathematical

1 calculations. That's an arithmetic calculation. So if
2 you're looking at this over time, you would have expected
3 that it would -- any time you did the calculation it would
4 show approximately a 300 basis points difference.

5 When you turn around and compound those numbers
6 together, given the risk profile that's attached to
7 private equity, the compounded return number that in my
8 mind should have been being calculated for a number of
9 years, it's closer to 150 basis points. And that's
10 because as you move from an arithmetic number to a
11 compound number, there's a volatility element that gets
12 into that. And I think Mr. Miller could probably tell us
13 more about that calculation given his background.

14 (Laughter.)

15 MANAGING INVESTMENT DIRECTOR BAGGESEN: So
16 basically we think that what we've done with this
17 benchmark is move it closer to the actual opportunity cost
18 and to the actual numbers that are appropriate to be
19 compounding going forward. And you see that in the
20 historic results that have been generated by the program
21 basically where we think the 150 basis points is our real
22 expectation.

23 And quite honestly, we do not have any other easy
24 to identify alternatives to try to add that excess value
25 on top of what we extract from the Public Equity markets,

1 which is one of the reasons that Private Equity is such a
2 core component of this. As it has been mentioned, Private
3 Equity is the one part of our asset allocation where we
4 actually expect to earn a rate of return that is higher
5 than the discount rate that were currently being applied
6 to the whole program.

7 So this is an absolute critical part of that.
8 And if the asset class is not ultimately able to generate
9 that excess return, we'll ultimately have quite a problem
10 with the overall returns that are generated in the
11 structure given the expectations that are there.

12 So I don't -- hopefully that answers your
13 question a little more completely.

14 CHAIRPERSON JONES: Okay. We have several
15 additional requests to ask questions. So let's take a
16 10-men break and reconvene at 11:10. Okay?

17 And, Ms. Brown, you'll be first up.

18 (Off record: 10:59 a.m.)

19 (Thereupon a recess was taken.)

20 (On record: 11:12 a.m.)

21 CHAIRPERSON JONES: And the first request to
22 speak is Ms. Brown.

23 COMMITTEE MEMBER BROWN: Thank you.

24 I want to start where we left off with the
25 Private Equity performance. So that's Attachment 1, page

1 2.

2 And so, Mr. Baggesen, you were explaining about
3 why we change the way we value it from 300 basis points
4 essentially down to 150 basis points. But we -- so
5 currently we're underperforming on the benchmark. But my
6 concern is, if we make it down to 150 basis points, so we
7 might make the benchmark, but how do we know if it's worth
8 the risk?

9 MANAGING INVESTMENT DIRECTOR BAGGESEN: Well,
10 that's actually a very interesting question. Because it's
11 not clear to me, ultimately how do we know that anything
12 is worth the risk? So, you know, the question is it's
13 dependent on how you would care to define risk. So if
14 we're talking about that as being the uncertainty of the
15 return, you know, in essence what you're seeing is
16 basically across all the time periods that are here, this
17 asset class has exceeded the return available from the
18 public markets. And we do not have a mechanism in place
19 that is easily substituted for that excess return. So by
20 our judgment, we believe that Private Equity has
21 demonstrated enough consistency in that incremental return
22 that it has generated -- that has been evidenced, that the
23 ultimately that ends up being worth the risk.

24 Now, the risk, if you just turn around and define
25 this in terms of illiquidity, if you turn around and

1 define it in terms of being able to manage the cash flow
2 profile of the fund, it certainly creates risks that have
3 to be accommodated somewhere else in the program. So that
4 can spring into allocations to cash, it can spring into
5 all kinds of things.

6 In reality, Private Equity for the last five or
7 six years has actually been the source of cash in the face
8 of a negative cash flow situation. So it has been the
9 source of actually making benefit payments which we never
10 would have anticipated from this asset class.

11 So it's not crystal clear to me how you would
12 like to define the risk. You know, Private Equity is not
13 an asset class where the risks can be understood on an
14 ex-ante or expectational basis, since basically you have
15 to wait until the capital is actually called and put into
16 an investment, and then you see what risks emanate from
17 that and you basically, in essence, then try to
18 accommodate or understand are those risks that you really
19 want to have in your portfolio, which is why we're trying
20 to merge the private and the public equities together,
21 because we can actually change the structure of our Public
22 Equity portfolio to offset some of the risks that might
23 evidence themselves from the Private Equity Program.

24 But it's hard to judge. You're judgment or any
25 individual's judgment is, is 150 basis points of excess

1 return worth the risk? We don't have a lot of
2 alternatives to get the 150 basis points. So in our minds
3 it is worth the risk.

4 COMMITTEE MEMBER BROWN: And have any other large
5 pension funds reduced the benchmarks? Did we copy anybody
6 or is anybody copying us?

7 MANAGING INVESTMENT DIRECTOR BAGGESEN: Well, I
8 think there's a lot of different attitudes about how to
9 benchmark private equity. And ultimately the judgment --
10 and, you know, you consultants can also chime in on this.
11 But ultimately I don't anybody believes that they actually
12 have a good benchmark for private equity. So it literally
13 just becomes one of, okay, would you like to earn an
14 excess rate of return? Well, we could aspire for that
15 rate of return to be 500 basis points; and if we only get
16 400, are we going to be disappointed with that? We don't
17 have another alternative to get that 400 even.

18 So I think that ultimately we're just trying to
19 come up with a set of expectations that we think are
20 rational given the state of the evolution of the
21 marketplace. You've heard, for example, about the amount
22 of capital that is being committed to private equity on
23 pension funds around the world, particularly here in the
24 United States, are trying to pile money into private
25 equity simply because again it evidences a higher rate of

1 return than they've been able to extract from any other
2 parts of their portfolio.

3 So all of that capital moving into the asset
4 class, in our minds, mean that we should reduce our
5 expectation of the excess return going forward. So by
6 using a lower excess return number, we're de-emphasizing
7 that excess return in the structure of our overall asset
8 allocation. So that provides more room for other
9 alternatives to come in, but it's still a core plank that
10 is trying to get us to our expected 7 percent rate of
11 return.

12 But as I said, you know, if we had lots of other
13 alternatives, then maybe we would say that we don't like
14 the illiquidity of private equity, we don't like the fees
15 of it, we don't like lots of things about it. But we do
16 not have a lot of substitutes to try to generate that
17 level of excess return.

18 COMMITTEE MEMBER BROWN: So let me move on to a
19 question you might have a good answer for. And that's on
20 Attachment 1, page 6, for the 2018-19 objectives. And
21 maybe this is for Sarah or Ted.

22 Under the first bullet point, it's ongoing
23 review. And it says implementation of the Private Equity
24 Business Model. So we haven't approved it yet. So I
25 might say the implementation is a little too soon for an

1 objective since we haven't approved it.

2 CHIEF INVESTMENT OFFICER ELIOPOULOS: Yeah, I'll
3 take that one.

4 You know, we are implementing pillars 1 and --
5 pillar 1. So we're moving --

6 COMMITTEE MEMBER BROWN: Well, maybe we can be a
7 little more specific since we haven't approved 3 and 4
8 yet. I hate for it to be an objective if the Board hasn't
9 agreed to do it yet.

10 The other one is with Ms. Mathur's comments on
11 the rollout of the ILPA. You know, I've talked with quite
12 a few other managers whose primary concern about the ILPA
13 is all of the different pension funds want to report
14 something different. And if we don't end up coming up
15 with a standard format, it makes it very, very difficult
16 for the managers to report -- to report fees and expenses
17 and returns. And so, I caution us that we make sure that
18 we aren't overly demanding, because we need to get at
19 least a set document that everyone's reporting to. If
20 every time every large pension fund changes what they want
21 in ILPA, we'll never get a standard set. So I just want
22 to caution us that sometimes, you know, great is the enemy
23 of good.

24 That was just an editorial.

25 One more.

1 And then on Attachment 1, page 12, and we talk
2 about our -- that the manager selection and alignment of
3 interest are important to our Private Equity successes.
4 And I'm wondering if GPs sharing in our losses is an
5 alignment of interest. I'm not sure if we'll ever get
6 there. But, I mean, I think that's the biggest alignment
7 of interest. I mean they get -- they share in the profit.
8 And maybe they should share in the losses. That would be
9 a wonderful way of aligning our interests. And maybe with
10 this new PE structure that will happen, they share in the
11 losses.

12 And then the third bullet is more troubling, that
13 we're still focused on allocating more capital to fewer
14 managers. I wasn't on the Board at the time, but I
15 believe it was last either November or December the
16 Board's consultant said it was not a good strategy, that
17 we were not getting the savings in; because we were
18 allocating more dollars to fewer managers, we were not
19 getting better returns. And so I'm wondering why we're
20 focused on that when in fact our consultants said it
21 wasn't a good strategy for us.

22 INTERIM MANAGING INVESTMENT DIRECTOR CORR: So
23 that comment was meant to express that though there are 90
24 managers in the portfolio, we don't anticipate committing
25 capital to 90 managers going forward. The numbers that

1 were originally talked about were in the 30 range.
2 Currently we're thinking more in the 40 to 45 range. So
3 it's not that we're still allocating to just a smaller
4 number of managers, not 90. Somewhere between 30 and 45
5 was probably where we will end up. But we're still
6 reducing from 90, which where we are today.

7 COMMITTEE MEMBER BROWN: But didn't our -- didn't
8 our consultant say that it isn't working?

9 INTERIM MANAGING INVESTMENT DIRECTOR CORR: My
10 recollection is that the consultant said that 30 managers
11 was probably not enough. We have increased that target to
12 something between 40 and 45. But Meketa will be up here
13 in the next agenda item and they can address that.

14 COMMITTEE MEMBER BROWN: That would be great.

15 Just two more questions. I know we've got a long
16 list to go.

17 I have to go to my notes.

18 On page -- Attachment 1, page 27, the first
19 bullet says: "PE collaborated with IMEP." I don't know
20 what I-M -- what's I-M-E-P?

21 INTERIM MANAGING INVESTMENT DIRECTOR CORR: It's
22 the Investment Manager Engagement Program that's led by
23 Clint Stevenson.

24 COMMITTEE MEMBER BROWN: Okay. I'm terrible at
25 acronyms.

1 And then I want to go to Attachment 2, page 2,
2 and our venture capital returns, which is the 1, 2, 3, 4th
3 item down, are pretty terrible. Public equity gets better
4 returns. And so I'm really wondering why we are focusing
5 on venture capital.

6 INTERIM MANAGING INVESTMENT DIRECTOR CORR: We
7 are not focusing on venture capital. We have not made a
8 commitment to a venture capital fund in over 10 years.
9 That is the trailing off of the venture portfolio that was
10 built up between '99 and 2006.

11 COMMITTEE MEMBER BROWN: And maybe this is really
12 for John Cole. I was focusing on venture capital. Don't
13 want go into anything that's closed session. But you're
14 going to probably tell me it's a different kind of venture
15 capital, right? Is that what you're going to tell me?

16 INVESTMENT DIRECTOR COLE: No. But I think
17 it's -- that's more appropriate for discussion later.

18 COMMITTEE MEMBER BROWN: All right.

19 And then the last question I have is Attachment
20 2, page 3, which is the expenses here. And so we're
21 looking at this private equity expense summary. And I
22 think these costs ignore carried interest and fees. Or
23 does it have fees but not carried interest? And what do
24 we think carried interest is costing us? I know we
25 just -- I just read something in a newspaper that

1 Philadelphia or some Pittsburgh fund just came up with a
2 cost of carried interest, was able to calculate that. So
3 I'm wondering if this includes carried interest and where
4 we are with that.

5 INTERIM MANAGING INVESTMENT DIRECTOR CORR: On
6 slide 25 of Attachment 1 has I think a similar chart. And
7 on there the profit sharing paid for the fiscal year is
8 showing up at \$431 million.

9 CHIEF INVESTMENT OFFICER ELIOPOULOS: I want to
10 say I was looking at that. This chart actually we had for
11 each of the annual program reviews for each asset class
12 and we've had for Private Equity for three or four years
13 running now. And for this fiscal year, as Sarah said,
14 \$431 million in profit sharing. And you'll look below the
15 chart there, a profit sharing paid of 431 million. That's
16 the share of the profits to go to the general partner.
17 CalPERS realized 3 and a half billion dollars. That's the
18 share of profits that we earned.

19 INTERIM MANAGING INVESTMENT DIRECTOR CORR: And
20 on Attachment 2, page 3, the profit sharing paid is the
21 third line down.

22 COMMITTEE MEMBER BROWN: Right.

23 Thank you.

24 CHAIRPERSON JONES: Okay. Thank you.

25 Mr. Miller.

1 COMMITTEE MEMBER MILLER: Thank you, everybody,
2 for the presentations. And I'll try not to do too much.
3 Just thinking out loud here. But what I will say is I
4 really appreciate putting it into a perspective that's
5 somewhat responsive to the questions that we've had,
6 particularly some of the questions that I've had about
7 kind of the strategic -- where this fits in terms of the
8 longer term strategic workforce planning and building on
9 the successful program we have. There was a lot of
10 confusion, at least for me and stakeholders I heard from,
11 about whether this was replacing our Private Equity
12 Program with something else, and what it would do to our
13 risk profiles and everything. And I think the comments
14 from the team, and Ted helped reiterate, that this is
15 building on our existing program, not replacing it.

16 And so - and this is where I just want some
17 clarification of my understanding - with pillars 1 and 2,
18 which is continuing to do what we've been doing. The
19 challenges we've had with what we've been doing sounds to
20 me like it's primarily been a function of market
21 structure, market dynamics, money chasing money, not able
22 to get commitments called, not able to actually deploy our
23 resources in a way that gives us those advantageous
24 returns, whether they're risk adjusted or they're at 150
25 basis points or 500, whatever, we're not getting that

1 because we can get them deployed.

2 And that's more a function of that than a
3 function of having 30 versus 50 staff on that function.

4 But that with pillars 3 and 4, we've talked about
5 all the advantages, but my interest in terms of a
6 long-term strategic planning is - and this is where the
7 devil will be in the details that we'll get to over the
8 next few months to start taking a look at - is, you know,
9 what are the capacity and capability constraints for our
10 team that we need to develop short and long term to be
11 able to, you know, build on that and eventually maybe have
12 even more efficiencies and effectiveness at being able to
13 get private equity funds deployed, because I for a long
14 time have been an advocate of having more of our
15 allocation moving toward private equity. And so this all
16 is kind of music to my ears.

17 But our taste for risk is the balance to that.
18 So thank you. But have I kind of got the big picture
19 right on that?

20 INVESTMENT DIRECTOR COLE: Yes, indeed. In fact,
21 you're framing ideally what we'll get into a little bit
22 more this afternoon about the planning, looking out over
23 five years and addressing the very elements you've
24 described. So, yes.

25 COMMITTEE MEMBER MILLER: Thank you.

1 CHAIRPERSON JONES: Ms. Hollinger.

2 COMMITTEE MEMBER HOLLINGER: Yes. First of all,
3 thank you for the staff - Sarah, John, everyone - also
4 during this transition and your commitment this past 18
5 months.

6 I mirror a little bit Ms. Brown. I wanted to
7 know with the increase of capital moving into private
8 equity, I guess what I was thinking, Eric or John or
9 Sarah, about how is it working for a reduction in
10 managers? Because similar to Ms. Brown, with our
11 consultants advising us differently -- and I understand
12 you can go down one path and then realize, hey, we may
13 need to readjust, and I respect that. So that was my
14 question, is about maybe rethinking that or how's it
15 working. I just wanted to hear from you.

16 INVESTMENT DIRECTOR COLE: My suggestion is that
17 perhaps we allow Meketa to cover.

18 COMMITTEE MEMBER HOLLINGER; Oh, okay. That's
19 fine.

20 INVESTMENT DIRECTOR COLE: And then if we need to
21 pick it up later, we can do that.

22 COMMITTEE MEMBER HOLLINGER: Fine

23 CHAIRPERSON JONES: Okay. Ms. Mathur.

24 COMMITTEE MEMBER MATHUR: Thank you.

25 I just wanted to come back to the benchmark

1 question, because I think it might be worth clarifying,
2 and how the benchmark for Private Equity is so
3 dramatically different from the benchmark for the other
4 asset classes. It is not a collection of results from the
5 market the way the Public Equity benchmark is where we can
6 actually test how we perform against the market as a
7 whole. It is sort of an estimate of on average what we
8 hope to achieve or target of what we hope to achieve in
9 terms of performance for the program. And we know that
10 because of the private equity markets do not so closely
11 match the public equity markets, that we're going to have
12 periods of significant underperformance and periods of
13 signi -- of overperformance relative to that benchmark,
14 because it's just not possible to hit it on the nose. And
15 there is no collection of results from the Private Equity
16 market the way there is for Public Equity or Fixed Income.

17 So, anyway, I just -- I thought that was
18 important to articulate because it's -- it's called a
19 benchmark but it's just not the same. We can't closely
20 track -- monitor tracking error or manage tracking error
21 in the way we can in some of the other asset classes.

22 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah. If
23 I could just comment on that for a moment. You're
24 absolutely right. And you actually can obtain peer
25 benchmarks that represent the returns that are generated

1 by different category of investors. As an organization,
2 we have not used those peer benchmarks for anything other
3 than just looking at the program more anecdotally.

4 But there are some organizations that use exactly
5 that. You know, they're not so worried about what does
6 private equity represent for my risk profile. They end up
7 wondering more about how their program performs relative
8 to other organizations' programs.

9 So that is something that absolutely can be
10 measured. And I think that some of that information comes
11 out, for example, in like the Wilshire review of the
12 overall Total Fund. So you'll see information in that
13 area.

14 But one of the things that people need to think
15 about with private equity - and this gets into the number
16 of managers and -- that you have this tension that exists
17 between attempting to deploy capital into the
18 marketplace -- so obviously if you just start passing
19 money out to every manager that walks through the door,
20 you can deploy money into the marketplace. And CalPERS
21 actually had some experience with passing out money into
22 the marketplace. The results that came from that did not
23 tend to be very favorable. Generally speaking, everything
24 I've ever heard about private equity is that you do not
25 want an index of private equity firms; that literally that

1 result that you get from that will not provide the kind of
2 outcome that we're trying to extract, which is always
3 trying to focus on the managers that at least are in the
4 top half of that universe, if not the top quartile.

5 That becomes one of the reasons for trying to be
6 more limiting as to the number of managers that you bring
7 into the program. Simply by the law of large numbers, if
8 you start spreading capital around to lots and lots of
9 managers, that whole outcome is going to move right
10 towards the average of that universe.

11 So literally, the effort to try to concentrate
12 capital flow on smaller number of managers is to try to be
13 more effective and to try to make our relationship with
14 those managers more material to them so that we're able to
15 basically try to get a larger capital allocation in their
16 process.

17 Now, not all managers want to do that. They do
18 not want to be captive to CalPERS and the capriciousness
19 potentially of this organization. So there's a tension
20 that exists in this space.

21 But this benchmark issue for us, that's why I
22 said, in the last asset allocation, we believe the most
23 relevant aspect for -- to consider as far as the benchmark
24 is to look at it as an opportunity cost. If we are not
25 investing in public equities, we can invest in private

1 equity. If we do not invest in private equity, we're
2 going to put that money probably in the public equity
3 portfolio. So we look at those two things as being
4 relatively fungible and representing the same kinds of
5 economic characteristics in their exposures, because
6 they're related to economic activity and economic growth
7 ultimately to be the big drivers of their returns
8 structures.

9 So that's the reason that we created this
10 basically merged benchmark with this excess-return hurdle,
11 which is our aspirational outcome that we want to have
12 happen to basically try to contribute to the overall
13 return for the fund.

14 COMMITTEE MEMBER MATHUR: And 150 basis points,
15 yes, is our aspiration hurdle, but also you could say
16 reflects the risk -- the premium that we want in exchange
17 for the additional risk of investing in the private
18 markets.

19 MANAGING INVESTMENT DIRECTOR BAGGESEN: No,
20 that's right. And just -- think about what happens. In
21 other words if we put an asset into any kind of an
22 optimizer or a -- call it a puzzle solver when we try to
23 do our asset allocation. If we have an asset that has a
24 much higher disparate return, that will overwhelm all of
25 the other assets in the asset allocation structure. So

1 literally, the higher the expected return increment on
2 private equity, the optimizer's simply just going to try
3 to keep piling on exposure after exposure after exposure
4 into Private Equity.

5 We want those numbers to represent something that
6 we think is rational, not necessarily what we might
7 aspire. We would all love it if Private Equity would
8 generate 10 percent on top of public equities. We can
9 want that, but we may not be rational in absolutely
10 aspiring to that, or in planning for that in the structure
11 of how we organize the structure of our asset allocation.

12 So we believe the 150 basis points, is it a much
13 more rational number given again the capital demands for
14 private equity, given that we basically -- we still need
15 to try to actually achieve something. So we want an
16 expectation set that matches what we think may actually be
17 the outcome. And if we get a surprise, we would like it
18 to be to the upside, not to the downside, because that's
19 going to cause a lot of problems in the long run.

20 And if we're wrong about 150 basis points, if it
21 returns just what public equities do, we're going to have
22 problems in this organization going forward trying to
23 maintain that 7 percent discount rate.

24 So it's all about just trying to be rational with
25 the numbers. It's not -- you know, we can wish for

1 anything we want. But we've got to try to make this
2 reflect what we think the opportunity set really, really
3 can do for us.

4 COMMITTEE MEMBER MATHUR: Yeah. Thank you.

5 CHAIRPERSON JONES: Yeah, thank you.

6 Making reference to the PEARS tool, I recall four
7 or five years ago when you were being asked to provide
8 information on fees and carried interest, and we kept
9 saying wait until we get a system that we're unable to.
10 And we got criticized a lot in the press for not knowing.
11 And we kept saying wait until we finish the development of
12 this system and we will be able to answer those questions.
13 And so I'm seeing now the results of information coming to
14 us that is more accurate and more timely as a result of
15 that system.

16 It may be helpful to give the Committee a
17 presentation on the PEARS system. And if it's -- part of
18 the information is relative to a closed session, then so
19 be it, do it in closed session as opposed to open session.
20 But it may be helpful to get an understanding of how that
21 system is working.

22 And then to the second question. Not a question
23 but a comment - I guess it is a question - to Ms. Brown's
24 question to you about sharing in the losses. It was my
25 understanding that there is a hurdle rate in our Private

1 Equity at which returns have to exceed a certain level
2 before they participate in those earnings. So in a way --
3 if that's correct, in a way that is requiring them to earn
4 money to get money. So is that correct?

5 INTERIM MANAGING INVESTMENT DIRECTOR CORR: So
6 most funds do have a preferred return of 7 or 8 percent on
7 them. Additionally, most funds, the management fees have
8 to be returned to investors before the general partner can
9 participate in the carried interest. Additionally, they
10 put their own money in the fund and so therefore, to the
11 extent there are losses, they're losing their own capital
12 as well.

13 CHAIRPERSON JONES: Okay. Yeah, I thought it was
14 a little piece of that. Okay.

15 Okay. Seeing -- oh, yes.

16 CHIEF OPERATING INVESTMENT OFFICER BOURQUI:

17 Sorry, Mr. Jones.

18 CHAIRPERSON JONES: Yes.

19 CHIEF OPERATING INVESTMENT OFFICER BOURQUI:

20 Thank you very much for your question about the
21 PEARS system. And we are very happy actually to present
22 that in the further sessions about how we continue to
23 develop the system, I mean how it is today and how we
24 continue to develop it.

25 Thank you very much.

1 CHAIRPERSON JONES: Okay. We look forward to
2 that.

3 Okay. Seeing no further questions.

4 We move to 7d.

5 And you're finished -- Sarah, you're finished?

6 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Yes.

7 CHAIRPERSON JONES: Okay. The consultant's
8 review of Private Equity Program.

9 MR. HARTT: It's still good morning, but not much
10 morning left.

11 Steve Hartt from Meketa Investment Group, joined
12 by my colleague Hannah Schriener, the PE Board consultant.

13 I know there's some questions being discussed
14 about the program that we can address, so we'll make our
15 review of our letter for the 2017-18 program pretty short.
16 It's on pages 390 through 398 in your package.

17 And just a quick overview in terms of how we are
18 involved with the Private Equity team. We are involved as
19 a participant on the investment review committees. They
20 happen a couple of times a month. The last time period
21 was almost 30 investment meetings that took place.

22 We have -- I have more or less a biweekly call
23 with Sarah and John. Sometimes they're not both there,
24 but we often have that call pretty much on a biweekly
25 basis.

1 We review as your Board consultant from a policy
2 perspective every investment that the staff makes; and
3 over the '17-'18 time period that was 19 investments.

4 And as part of the review of the program, we did
5 do an onsite meeting in September with the staff.

6 So just quickly here in terms of the components
7 that we'll be covering today: The performance,
8 implementation of the program over the last 12 months,
9 policy compliance, and the staffing. And Hannah will
10 cover the first part, the performance.

11 MS. SCHRINER: Okay. Thank you. Hannah Schriener
12 with Meketa Investment Group.

13 So a couple of comments on the observations that
14 we did make in our letter regarding the performance for
15 just the fiscal year. So as you know, some of the things
16 have already been mentioned, so I'll keep it a bit high
17 level.

18 There was an increase in the net asset value of
19 about 1.3 billion for the fiscal year. When we kind of
20 extrapolate that, we see that the net cash flows continue
21 to be positive. We did hear the comment about, you know,
22 cash flows have been, you know, significantly more than
23 expected over the recent periods. And this is actually
24 the 8th consecutive year that distributions have exceeded
25 contributions. And so for the fiscal year there were 7.4

1 billion in distribution and 4.5 billion in contributions,
2 for a net positive cash flow of 2.8 billion.

3 This is a trend that we do expect to slow down.
4 You know, it does pose a challenge for staff - you can
5 kind of, you know, think of the metaphor of swimming
6 upstream - as they're trying to deploy more capital to get
7 to that policy target, they're continuing to receive those
8 distributions back into the program.

9 For the fiscal year overall, the program did
10 realize a 4.1 billion dollar value increase, which we feel
11 is a very positive thing to point out here because as we
12 look at the performance relative to the policy benchmark,
13 you know, the discussions have been around the
14 underperformance. However, when we look at the one-,
15 three-, and five-year periods, as compared to our report
16 that we gave a year ago, those individual trailing numbers
17 are stronger than they were a year ago. And the total
18 program continues to outperform the Global Equity
19 benchmark over all periods. And so, while it is lagging
20 the Private Equity benchmark, the program does continue to
21 add the value as already been noted before.

22 MR. HARTT: So on the implementation, as had been
23 mentioned by Sarah and others, during the 2017-18 time
24 period, they committed \$5.3 billion out of a budget of 6.
25 And that difference came from a shifting of the Emerging

1 Manager Program review and allocation from that period to
2 just the current period.

3 This compares to \$3.3 billion that was committed
4 in a prior period. So prior period was 9 investments,
5 this was 19 investments. So certainly an uptick in
6 activity by the staff in deploying the capital.

7 Would note that in the prior period all 9
8 commitments were to core managers; whereas, the 19
9 commitments, 16 were to core managers, 2 were transition,
10 and 1 was a new manager in the program although there had
11 been exposure in the Emerging Manager Program with that
12 manager.

13 In terms of the overall activity as we have
14 talked about and the strategic plan is the challenges
15 around being able to deploy capital at scale and doing it
16 effectively and consistently. And we're talking about it
17 here, the strategic plan; the four pillars; and the
18 opportunities to do additional capital through pillars 3
19 and 4; a continued rethinking around pillar 2, which is I
20 would guess the standard investment program, where there
21 is fund investments and John and the team considering
22 additional ways to deploy capital through separate
23 accounts, through co-investments, through secondaries,
24 that would be a logical part of a program of the size and
25 scale and the resources of CalPERS to continue to do that.

1 And that will be reviewed as additional processes to
2 continue to develop the pillar 2 strategy. And we can
3 talk about more of that in closed session.

4 The Emerging Manager Program being somewhat
5 refocused a little bit. I think that before the amount of
6 capital and the couple-hundred-billion-dollar size range
7 tended to invest in managers that were really frankly a
8 little too small to eventually make it into the CalPERS
9 program. And by increasing that commitment size to that
10 program to a larger amount, and so that that advisor
11 fund-to-fund manager would be able to commit a larger
12 amount to larger managers and be able to target ones that
13 can scale up more rapidly and to be included into the core
14 program I think is a shift in the -- in the program and
15 hopefully allow additional managers to make it into a more
16 core program within CalPERS.

17 We've talked about the separate accounts and
18 co-investments. As mentioned, there is the combination of
19 the Private Equity with the Global Equity to make a one
20 program there. And teams will remain separate, investment
21 programs are separate. But it will be interesting to
22 observe potential sharing and commonalities between the
23 two programs. Perhaps there's ways where Global Equity,
24 the public equity side, can think about investment
25 opportunities that might be more private-equity like.

1 There are various managers that run programs; there's, you
2 know, continued IPOs and listings of private-equity-like
3 vehicles invest in private-equity-like opportunities. So
4 those can be opportunities to be explored, and seeing the
5 overlap between the Global Equity and the Private Equity
6 Program could lead to some interesting opportunities.

7 MS. SCHRINER: Thank you.

8 So taking a look at the policy compliance as of
9 the end of the fiscal year. The program was within
10 compliance with the key parameters of the program, the key
11 policy parameters. And so, as Steve had mentioned, we did
12 review 19 investments - so 18 funds, one separately
13 managed account. And for those investments in our review,
14 they all were within policy compliance. And following the
15 end of the fiscal year, so in August, the PE policy was
16 revised, so there were some updates to the policy ranges.
17 And so we just did want to highlight that as well as it
18 followed fiscal year-end.

19 MR. HARTT: From the staffing perspective, the
20 number of team members in Private Equity remains stable,
21 essentially at 34 members. There remains five vacancies.
22 There's always a certain number of vacancies as things
23 kind of move around. So there's five vacancies currently,
24 including of course the managing investment director.

25 One thing on the way the staffing has been done.

1 Sarah and the team have reorganized the staffing such that
2 there has been a merger between the underwriting teams and
3 the monitoring teams. Something that we noted previously
4 had been separated now had been combined together. And I
5 think that it does a couple things: One, it reduces any
6 frictions there might have been between observations that
7 the monitoring team was having with regards to particular
8 investment managers and being able to reflect that
9 effectively and quickly in the underwriting processes.
10 But also, by combining them, just frankly having more
11 staff to do that. Now there are six underwriting teams,
12 so that there's more ability to -- increased ability to be
13 able to deploy capital and to underwrite investment
14 managers.

15 I think that, in conclusion here, the returns
16 have been strong and have improved over time. There is
17 obviously a continued need to increase investment pace in
18 order to achieve the 8 to 10 percent target allocation and
19 investing in scale, and doing it in a way that really
20 takes advantage of CalPERS attributes.

21 And we think that with that increase in scale,
22 there will be increased needs for development of staff and
23 resources within the organization to be able to take
24 advantage of these opportunities.

25 Happy to answer any questions.

1 CHAIRPERSON JONES: Okay. Thank you.

2 I guess this is a question for Ted or John in
3 terms of the increased staff as you mentioned in your
4 letter about the increased complexity will require. So I
5 assume that's going to be addressed when we talk about
6 pillars 4 and 5.

7 CHIEF INVESTMENT OFFICER ELIOPOULOS: It is.
8 There's a section in closed session regarding that.

9 CHAIRPERSON JONES: Okay. Thank you.

10 Ms. Mathur.

11 COMMITTEE MEMBER MATHUR: Yeah, I just have a
12 question about combining of the underwriting and
13 monitoring teams, because I know -- I think over time it
14 has gone back and forth between being combined and
15 separate. And the reason for separating was really to
16 avoid conflicts where someone would select a team and then
17 also monitor that team, and that perhaps there could be a
18 conflict embedded there.

19 Are there safeguards in place or processes in
20 place to protect against that and -- or maybe that's
21 better for the team. I don't know, maybe --

22 MR. HARTT: So what I would observe on that is
23 that an issue can be, if you monitor a particular team,
24 you can fall in love with it and you, you know, kind of
25 want to continue to deploy capital to that team, you get

1 focused on that.

2 From our perspective, what we see is a very
3 robust investment review committee process, with lots of
4 voices going on, lots of discussion, participation, and
5 thoughts on that; and that that's the venue I think where
6 there's challenges and thoughts along that, that -- also
7 being said, that it's a very review -- a very thorough
8 review process of the investment and making sure that the
9 characteristics of that opportunity really meet what our
10 CalPERS standards are.

11 COMMITTEE MEMBER MATHUR: Great. Well, I think
12 this is an instance where processes are our friend. You
13 know, out having ad -- doing things ad hoc doesn't
14 achieve -- you know, prevent -- you know, can create a lot
15 of risk. But if the processes are appropriate, then
16 that -- I'm comfortable.

17 Okay. Thank you.

18 CHAIRPERSON JONES: Okay. Thank you.

19 I see no further questions.

20 Thank you for the report.

21 MR. HARTT: Okay.

22 CHAIRPERSON JONES: We do have a request to speak
23 on this item. Mr. Al Darby.

24 If you would come to my left. And you will have
25 three minutes to speak.

1 And I'm sure you know the routine, Mr. Darby.

2 MR. DARBY: Good morning, Mr. Chair, Board
3 members. Al Darby, President, Retired Public Employees
4 Association.

5 The existing Private Equity Program in CalPERS
6 outperformed Public Equity in 2017-18 fiscal year, but
7 failed to achieve its 18.6 percent benchmark. But I
8 believe that benchmark was reduced down to 15.6, if I'm
9 not mistaken.

10 The five-year average for a private equity return
11 is 14.2 percent, less than the old benchmark of 16.4, I
12 believe it was.

13 Global Equity produced 10.2 percent return
14 overall.

15 It was recently reported that about three-tenths
16 of all public equity allocation in CalPERS is currently
17 invested in public equity. So the current Public Equity
18 staff is finding PE homes for all this -- for all but a
19 fraction of the allocation. The fact is that current
20 staff is filling private equity investments despite the
21 alleged shortage of public -- of private equity
22 opportunities.

23 Now, getting onto the issue of CalPERS Direct.
24 The San Francisco Pension Fund has a system similar to the
25 proposed CalPERS Direct. Its return-on-investment

1 expectation is S&P 500 plus 500 basis points. This is
2 less than the current CalPERS benchmark if you took -- or
3 right at the CalPERS new benchmark.

4 So the -- if CalPERS Direct has established what
5 data or research is available that supports the belief or
6 claim that the CalPERS Direct model will produce
7 significantly more return, enough return to support the
8 added cost of separate staff: PE experts that will be
9 very expensive people; administration; and a new board or
10 two boards and still outperform the current benchmark of
11 15.6 percent - I believe that's the current benchmark, it
12 was 18.6 - its independence could be problematic to
13 CalPERS' interests. For such a small allocation, it
14 sounds like we're only going to put 2 or -- 1 or 2 billion
15 into this -- it seems like a whole new bureaucracy, seems
16 like overkill to manage 2 billion up to 10 billion over 10
17 years. This does not do anything to help the PERF, which
18 is a claim that's being made for CalPERS Direct now, it
19 doesn't do a thing for the current funded status of the
20 PERF.

21 I gave you a copy of this Bloomberg report that
22 says that by leveraging up a typical S&P 500 Index Fund, you
23 could get the same results as private equity. So why
24 invest in all this time and effort and money into a whole
25 new bureaucracy to run \$2 billion worth of assets that

1 might expand to 10 billion over 10 years?

2 Thank you.

3 CHAIRPERSON JONES: You're welcome. Thank you,
4 Mr. Darby.

5 Okay. So now we will move to Summary of
6 Committee Direction.

7 Oh, 9. Sorry.

8 No, that comes after.

9 Okay. Summary of Committee Direction.

10 MANAGING INVESTMENT DIRECTOR BAGGESEN: Okay.
11 The item that I've identified that I think is a Committee
12 direction is basically to bring back some information on
13 the PEARS system.

14 Are there any other items that I missed, Mr.
15 Jones?

16 CHAIRPERSON JONES: No, I think that was the only
17 one. The rest we'll be talking about in closed session.

18 Okay. Now we go to Item 9, Public Comment.

19 We have a request to speak. Mr. Larry Woodson.

20 If you'd come down to my left. And you will have
21 three minutes to speak.

22 And identify yourself and your organization.

23 MR. WOODSON: Good morning. Larry Woodson,
24 California State Retirees. Chairman Jones, Board members,
25 thank you for the opportunity to comment this morning.

1 I'm speaking on behalf of our President Tim
2 Behrens, who's not able to be here. But my comments are
3 on CalPERS Direct, the proposed Private Equity model which
4 CEO Frost and staff have been promoting after -- over the
5 last several months.

6 CSR has strong reservations and concerns
7 regarding the proposal. We along with other stakeholder
8 groups have expressed concerns, asking for more detail and
9 meetings with staff. In last Thursday's stakeholder
10 briefing, Mr. Cole did give us a detailed presentation
11 providing more information to stakeholders, which we
12 appreciated. However, it did not alleviate our concerns,
13 many of them, and raised more questions, which we'll be
14 asking as this moves forward.

15 We noted that the proposal is on the agenda today
16 for today's closed session of the Investment Committee,
17 but it is not specifically listed on the open session
18 today. It's not in any of the attachments. Apparently it
19 was - and I'm sorry to say - masked in a -- under the
20 program review topic. And so this, you know, we find
21 disappointing.

22 But, you know, on a positive note, staff has
23 agreed to provide the detailed written program description
24 to stakeholders, which we will be looking forward to.

25 Our concerns include, just a few: Number one,

1 the governance model itself, which is described to us as
2 the creation of these two private companies fully funded
3 by CalPERS, both of which would have a CEO with expertise
4 in PE, who would select their own five-member board, and
5 both of which would be given a percentage of our assets as
6 outlined. And these companies would not be subject to
7 Bagley-Keene or California Public Records Act, and it
8 would operate with little transparency, raising concerns
9 about potential conflict of interest or worse.

10 Number two, Mr. Cole in response to one of my
11 questions Thursday indicated that there has not been full
12 costing for funding these two CEOs, their staff, board
13 members, leasing of space, benefits, transportation and so
14 on, and that that would be finalized in negotiation with
15 the CEOs. I would expect those costs to be enormous,
16 greatly reducing net gain. And I would hope that costing
17 would occur -- accurate costing would occur prior to any
18 approval of this proposal.

19 Third, PE is a higher risk investment, as noted,
20 and it's been -- up until today there's been no real
21 detailed information on how that risk would be mitigated.

22 And then both the manner and the timing in which
23 this proposal has been rolled out--

24 CHAIRPERSON JONES: Mr. Woodson, your time's up.

25 MR. WOODSON: -- is a concern. We don't believe

1 there's any need to rush.

2 So, in conclusion, we hope the Board will have
3 the same concerns stakeholders have and ask the tough
4 questions that need to be asked.

5 Thank you for your time.

6 CHAIRPERSON JONES: Thank you.

7 Okay. That concludes the open session.

8 We will convene in closed session in 10 minutes.

9 Is that enough time for closed session?

10 COMMITTEE MEMBER MATHUR: 15 minutes I think we
11 need --

12 CHAIRPERSON JONES: You need 15?

13 Okay. Fifteen minutes. So that's 12:15.

14 (Thereupon California Public Employees'
15 Retirement System, Investment Committee
16 meeting open session adjourned at 11:59 a.m.)

17

18

19

20

21

22

23

24

25

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

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

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

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

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

16
17
18
19
20
21
22
23
24
25


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