

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

MONDAY, NOVEMBER 13, 2017
9:00 A.M.

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

COMMITTEE MEMBERS:

Mr. Henry Jones, Chairperson

Mr. Bill Slaton, Vice Chairperson

Mr. Michael Bilbrey

Mr. John Chiang, represented by Mr. Frank Moore

Mr. Richard Costigan

Mr. Rob Feckner

Mr. Richard Gillihan

Ms. Dana Hollinger

Mr. J.J. Jelincic

Mr. Ron Lind

Ms. Priya Mathur

Mr. Theresa Taylor

Ms. Betty Yee

STAFF:

Ms. Marcie Frost, Chief Executive Officer

Mr. Ted Eliopoulos, Chief Investment Officer

Mr. Matt Jacobs, General Counsel

Mr. Eric Baggesen, Managing Investment Director

Ms. Natalie Bickford, Committee Secretary

Ms. Sarah Corr, Interim Managing Investment Director

Ms. Kit Crocker, Investment Director

Ms. Jane Delfendahl, Investment Director

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

STAFF:

Mr. Mahboob Hossain, Investment Director

Mr. Mike Inglett, Investment Director

Mr. Paul Mouchakkaa, Managing Investment Director

Ms. Beth Richtman, Investment Manager

Mr. Wylie Tollette, Chief Operating Investment Officer

Mr. Ed Yrure, Investment Director

ALSO PRESENT:

Ms. Lisa Bacon, Meketa Investment Group

Dr. Sarah Bernstein, Pension Consulting Alliance

Mr. Allan Emkin, Pension Consulting Alliance

Mr. David Glickman, Pension Consulting Alliance

Mr. Steven Hartt, Meketa Investment Group

Mr. Andrew Junkin, Wilshire Associates Consulting

Mr. Dan Matusiewicz, City of Newport Beach

Mr. Stephen McCourt, Meketa Investment Group

Ms. Laura Rubaccaba

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1
2 CHAIRPERSON JONES: I'd like to call the
3 Investment Committee meeting to order. And the first
4 order of business is roll call, please.

5 COMMITTEE SECRETARY BICKFORD: Henry Jones?

6 CHAIRPERSON JONES: Here.

7 COMMITTEE SECRETARY BICKFORD: Bill Slaton?

8 VICE CHAIRPERSON SLATON: Here.

9 COMMITTEE SECRETARY BICKFORD: Michael Bilbrey?

10 COMMITTEE MEMBER BILBREY: Good morning.

11 COMMITTEE SECRETARY BICKFORD: Good morning.

12 John Chiang represented by Frank Moore.

13 ACTING COMMITTEE MEMBER MOORE: Here.

14 COMMITTEE SECRETARY BICKFORD: Richard Costigan?
15 Rob Feckner?

16 COMMITTEE MEMBER FECKNER: Good morning.

17 COMMITTEE SECRETARY BICKFORD: Richard Gillihan.

18 COMMITTEE MEMBER GILLIHAN: Here.

19 COMMITTEE SECRETARY BICKFORD: Dana Hollinger?

20 COMMITTEE MEMBER HOLLINGER: Here.

21 COMMITTEE SECRETARY BICKFORD: J.J. Jelincic?

22 COMMITTEE MEMBER JELINCIC: Here.

23 COMMITTEE SECRETARY BICKFORD: Ron Lind?

24 COMMITTEE MEMBER LIND: Here.

25 COMMITTEE SECRETARY BICKFORD: Priya Mathur?

1 COMMITTEE MEMBER MATHUR: Good morning.

2 COMMITTEE SECRETARY BICKFORD: Good morning.

3 Theresa Taylor?

4 COMMITTEE MEMBER TAYLOR: Here.

5 COMMITTEE SECRETARY BICKFORD: And Betty Yee.

6 COMMITTEE MEMBER YEE: Here.

7 CHAIRPERSON JONES: Okay. Thank you.

8 The next item on the agenda is Executive Report,
9 Chief Investment Officer's briefing. Mr. Eliopoulos.

10 CHIEF INVESTMENT OFFICER ELIOPOULOS: Good
11 morning, Mr. Chair and members of the Investment
12 Committee. Well, today we have a very, very full agenda
13 of meaty and very important topics in our open agenda, our
14 closed agenda, as well as this afternoon's ALM workshop.
15 And our CEO Marcie just told me that we're expecting a
16 very full participation for the workshop of
17 representatives from our employer and employee stakeholder
18 communities.

19 Given that it's important to allocate sufficient
20 time and attention to these agenda items and make sure
21 that we have time to consider all of that input, I'm going
22 to keep my remarks very brief, so we can get on to the
23 items.

24 With respect to the ALM workshop this afternoon,
25 I think it's important just to underscore I think what

1 every member of the Committee understands that this is one
2 of the most important exercises that we conduct and
3 conduct this review every four years. We will be
4 reviewing candidate portfolios across the risk and return
5 spectrum. And importantly, this workshop format convening
6 the entire Board also considers the impact of those
7 portfolios on our liability structure.

8 I think it's important to underscore, and I
9 haven't done this in a while, some of the Investment
10 Beliefs that come into play for some of the major
11 decisions that this Committee has to make. And certainly
12 with the ALM exercise, it's important to consider the full
13 array of the Beliefs, but importantly Investment Belief
14 number 1 that liabilities must influence the asset
15 structure. The sub-Beliefs of Belief number 1 include
16 that we should ensure the ability to pay the promised
17 benefits by maintaining an adequate funding status as the
18 primary measure of success for CalPERS.

19 It also notes importantly for our review of the
20 Real Asset Program that CalPERS has a large and growing
21 cash requirement and inflation-sensitive liabilities.
22 Assets that generate cash and hedge inflation should be an
23 important part of CalPERS investment strategy.

24 Investment Belief number 6 I think is also worth
25 reflecting on at all times, but on the occasion every four

1 years that we conduct this workshop. Strategic asset
2 allocation is the dominant determinant of portfolio risk
3 and return. One of the sub-Beliefs there too, CalPERS
4 strategic asset allocation process transforms the fund's
5 required rate of return to the market exposures that your
6 Investment staff will manage on your behalf.

7 Turning to our Investment Committee agenda today,
8 we're focusing on our private asset classes today. We
9 have our annual review of our Private Equity Program as
10 well as our Real Asset Program.

11 Private equity and real assets make up
12 approximately 20 percent of our overall portfolio. They
13 each play very importantly roles within the portfolio that
14 you'll hear about more in the annual reviews providing
15 return and diversification to the fund.

16 These private asset classes operate in a
17 marketplace, a private marketplace in the many trillions
18 of dollars. We fundamentally believe that for CalPERS to
19 be successful over time, we need to be material, and
20 successful investors in the private marketplace.

21 Now there are a number of Investment Beliefs that
22 come into play. I'll just stick to the main messages for
23 each, because I do think it's an important framework for
24 our discussions later today.

25 Investment Belief 2, when you're thinking about

1 investing in these private asset classes, a long-term
2 investment horizon is both a responsibility and an
3 advantage. Investment Belief number 4, long-term value
4 creation requires effective management of three forms of
5 capital: The physical, the financial, and the human.

6 Also, we'll be discussing around the lens of
7 Investment Belief number 8, costs matter, and need to be
8 effectively managed. And the business models for our
9 private asset classes are executed through an array of
10 external managers, and that will be part of the
11 discussions that we have today.

12 And lastly, I think it's always important, if I
13 could just mention one belief for our meetings each month,
14 it would be Investment Belief number 10, which is that
15 strong processes and team work and deep resources are
16 needed to achieve CalPERS' goals and objectives.

17 And I think the materials you see today, the
18 stakeholders that are coming to discuss these strategies
19 and decisions that the Board will make, and the efforts
20 both of your staff and yourselves to really engage in this
21 discussion thoughtfully, and with humility and thinking
22 through the cross-currents and framework of our Investment
23 Beliefs will guide us well.

24 So with that, Mr. Chair, I do think we have lots
25 to cover today and I'll end my comments there.

1 CHAIRPERSON JONES: Okay. Thank you, Mr.
2 Eliopoulos.

3 We move on to the consent items, the action
4 consent items, the approval of the September 18 --

5 COMMITTEE MEMBER MATHUR: Move approval

6 COMMITTEE MEMBER TAYLOR: Second.

7 CHAIRPERSON JONES: Moved by Ms. Mathur, second
8 by Ms. Taylor.

9 All those in favor say aye?

10 (Ayes.)

11 CHAIRPERSON JONES: Opposed?

12 Seeing none. The item passes.

13 The information consent items, I have not
14 received any requests to remove anything from that area,
15 so we will move on to --

16 Just a minute, Mr. Jelincic.

17 Mr. Jelincic.

18 COMMITTEE MEMBER JELINCIC: This is a -- this is
19 4c, Attachment 1, page four of four. It also shows up in
20 attachment 3, the footnote, number 2 --

21 CHAIRPERSON JONES: J.J. -- Mr. Jelincic, if
22 you -- you want to pull -- address this, I'm going to pull
23 it and we'll discuss it at the end.

24 COMMITTEE MEMBER JELINCIC: I just want to them
25 to explain a footnote. But if you want to pull it, and

1 we'll discuss it at the end, we can do that.

2 CHAIRPERSON JONES: Yeah. Let's do that, because
3 we've got a lot to cover. Okay. We'll address that at
4 the end of the meeting.

5 Are there any other questions on that item?

6 Seeing none.

7 We now go to the policy and delegation agenda
8 items. Public Asset Class Investment Policy, second
9 reading.

10 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

11 Thank you, Mr. Chair. Wylie Tollette, Investment
12 Office staff. And we -- this is the second reading. The
13 Investment Policies are the Investment Committee's primary
14 direction to staff on the implementation of our investment
15 program, and so are a key document in how we manage the
16 portfolio.

17 And with that, it gives me great pleasure to turn
18 it over to Kit Crocker, our Director of Investment
19 Compliance and Operational Risk who's responsible for
20 maintaining these policies.

21 So, Kit, please take it away.

22 INVESTMENT DIRECTOR CROCKER: Thank you, and good
23 morning. Kit Crocker, CalPERS staff.

24 Item 5A is the second reading of staff's proposed
25 updates to the Total Fund Investment Policy. It addresses

1 the concerns expressed by this Committee at the first
2 reading. And we're seeking a determination from this
3 Committee in terms of whether to approve.

4 CHAIRPERSON JONES: Okay. Seeing no requests to
5 speak, do I have a motion?

6 COMMITTEE MEMBER LIND: Move approval.

7 COMMITTEE MEMBER YEE: Second.

8 CHAIRPERSON JONES: Move approval by Mr. Lind,
9 seconded by Ms. Yee.

10 COMMITTEE MEMBER JELINCIC: Henry.

11 CHAIRPERSON JONES: Okay. Mr. Jelincic.

12 COMMITTEE MEMBER JELINCIC: In this agenda item
13 for the Liquidity Program, we're going to reduce the
14 minimum standard from basically BBB+ to BBB. And I
15 understand how that expands the investable universe. What
16 I do not understand is how moving lower credit rated
17 securities into the portfolio reduces the credit risk for
18 the portfolio. And, you know, this is exactly the same
19 argument that was used to go from A- to BBB+ and now it's
20 being used for BBB+ to B, and the argument will be the
21 same moving to C.

22 You know, it always expands the universe. It
23 increases the return. But I -- I do not understand how
24 adding lower-rated securities actually reduces the level
25 of credit risk in the portfolio.

1 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

2 I'll take an initial crack at that, Mr. Jelincic.
3 I would also just quickly emphasize that there's no
4 intention to move below investment grade into C's, for
5 example.

6 COMMITTEE MEMBER JELINCIC: Well, there was no
7 intention to move below single A either.

8 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

9 The underlying logic behind this move is that one
10 of the primary investments in our cash portfolio today is
11 commercial paper, which is essentially a corporate
12 instrument, dependent on the health of corporations to
13 repay their short-term working capital credit lines. This
14 change in the Liquidity Program is intended to expand the
15 Investment universe around government guaranteed
16 instruments.

17 And the fundamental logic is that a government
18 guaranteed instrument has a fundamentally lower level of
19 credit risk than a corporate instrument. Governments have
20 historically been less likely to default than particularly
21 investment grade governments have been less likely to
22 default versus corporations. So that's the underlying
23 logic.

24 I would also highlight that we are still one
25 notch above the lowest level of investment grade, so we're

1 solidly within the investment grade universe here. And I
2 think if you'd like more information on that, I might call
3 up some of our fixed income team who participates in these
4 markets on a daily basis.

5 COMMITTEE MEMBER JELINCIC: The -- you've added
6 that we're looking at government guaranteed debt in this
7 lower rating. The proposal says sovereigns, which is
8 government issued, rather than just government guaranteed,
9 so which is it?

10 And the other question is, yes, governments have
11 less likelihood of defaulting than a corporation, because
12 typically they can print their own money, and so it's more
13 a matter of will than ability. But doesn't the -- don't
14 the rating agencies take that into impact -- into
15 consideration when they do the ratings?

16 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

17 They do, but I think there's a belief that, in
18 fact, the rating agencies may be more conservative than
19 they necessarily need to be regarding the government
20 issued debt. And there's certainly arguments that have
21 been made around their degree of aggressiveness regarding
22 ratings of corporate debt.

23 But government -- yes, this is sovereigns, so
24 government issued instruments.

25 COMMITTEE MEMBER JELINCIC: I mean, some of us

1 have been around long enough to remember when there was no
2 risk to any sovereign debt because they just simply
3 weren't going to default. That almost destroyed Bank of
4 America at one point, but, you know. Anyhow, I am not
5 comfortable reducing the risk. I understand that it will
6 increase the investable universe. I understand it will --
7 because we're going lower rated, we will get higher
8 returns, but this is a portfolio about liquidity not
9 necessarily returns. And I absolutely reject that
10 including lower rated debts improves the credit quality of
11 the portfolio.

12 CHAIRPERSON JONES: Okay. We have a motion on
13 the floor, and a second.

14 All those in favor say aye?

15 (Ayes.)

16 CHAIRPERSON JONES: Opposed?

17 Hearing none the item --

18 (No.)

19 CHAIRPERSON JONES: Record Mr. Jelincic as a no.

20 Thank you. The item passes.

21 We move on to item -- information agenda items,
22 Program Reviews. The first one is the private equity
23 annual program review.

24 (Thereupon an overhead presentation was
25 presented as follows.).

1 CHIEF INVESTMENT OFFICER ELIOPOULOS: Thank you,
2 Mr. Chair. I'll just fill-in some of the airtime here as
3 our Interim Managing Investment Director Sarah Corr and
4 our Investment Director Mahboob Hossain make their way up
5 to the dais. They'll start first. And then after this
6 presentation, Meketa will be presenting their consultant
7 report.

8 So with that, I think I've adequately filled the
9 time. We'll turn it over to Sarah and Mahboob.

10 (Thereupon an overhead presentation was
11 presented as follows.)

12 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Good
13 morning. Sarah Corr, CalPERS staff.

14 I am here with my colleague Mahboob Hossain.
15 Together, we will cover the annual program review for the
16 Private Equity Program. We will cover performance,
17 program characteristics, the current private equity
18 market, and recent, as well as up coming, activities.

19 Turning to performance.

20 --o0o--

21 INTERIM MANAGING INVESTMENT DIRECTOR CORR: The
22 one-year performance was good on an absolute basis, but
23 underperformed the private equity and the global equity
24 benchmarks. This is largely due to the strong one-year
25 performance in public markets. Private equity will

1 underperform in quickly rising markets.

2 However, it is more appropriate to look at
3 long-term performance for a private equity portfolio. And
4 looking at long-term performance is more consistent with
5 CalPERS Investment Beliefs. As you can see in the 10- and
6 20-year returns, the private equity portfolio has produced
7 returns in excess of 400 basis points above the global
8 equity benchmark, thereby exceeding the expected return
9 for the asset class.

10 The portfolio continues to be impacted by
11 overdiversification. As the program moves to more
12 concentrated commitments with fewer managers, there should
13 be a positive impact on returns over time. I will now
14 turn it over to Mahboob to talk about characteristics.

15 --o0o--

16 INVESTMENT DIRECTOR HOSSAIN: Thank you, Sarah.
17 Good morning, Mahboob Hossain.

18 (Microphone.)

19 INVESTMENT DIRECTOR HOSSAIN: Thank you.

20 Good morning. Mahboob Hossain, CalPERS staff.
21 Let me provide you with a brief overview of the portfolio.
22 The total net asset value of the program as of the end of
23 the last fiscal year was approximately \$26 billion, and
24 unfunded capital commitment was a little over \$14 billion
25 Three-quarters of the program is in buy-out and growth

1 strategies, and these two strategies have performed
2 relatively well. Rest of the portfolio is distributed
3 between credit, opportunistic, and venture strategies.

4 Before we go to the next slide, I'd like to
5 provide you with an update on current market environment
6 and our investment activities. Valuations for buy-out
7 transactions are at record high, and fundraising
8 environment for new funds is very robust. However, strong
9 exit market has also contributed to substantial
10 distributions and positive net cash flow for our
11 portfolio.

12 During the last fiscal year, we committed
13 approximately \$3.3 billion, and during the first four
14 months of the fiscal year, we have so far committed \$1.4
15 billion out of a total targeted allocation of \$4 billion
16 in total.

17 I will now hand over to Sarah Corr for concluding
18 remarks. Thank you.

19 --o0o--

20 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Thank
21 you, Mahboob.

22 In 2016-17, staff continued to focus on the PEARS
23 implementation. New functionality was introduced into
24 production and is currently being used by staff.

25 I'm happy to report out that the final release of

1 the project was successfully implemented earlier this
2 month. While there are a few project items to close out,
3 the implementation of PEARS is largely complete.

4 Following last year's efforts to improve
5 transparency, we have made good progress on getting our
6 partners to report using the ILPA fee template and
7 continue to focus on helping the ILPA adopt industry-wide
8 reporting standards.

9 During the fiscal year, CalPERS received \$3.5
10 billion of realized gains from our partners. Our general
11 partners received \$450 million of profit sharing. This
12 continues the pattern of strong utilizations CalPERS has
13 experienced over the past five years. Since July 1st of
14 2012, CalPERS has received approximately \$20 billion of
15 realized gains.

16 As we look forward to 2017-18, the Private Equity
17 Program will continue to focus on the new -- on the
18 business model. We will collaborate with public equity.
19 On reviewing distinct processes, in preparation for
20 potential implementation of a growth segment in fiscal
21 18-19. In addition, private equity staff will work with
22 senior management from the Investment Office to review
23 potential new business models that willow focus on ways to
24 scale the program.

25 Finally, staff is focused on creating a new

1 report on portfolio fees, expenses, and profit sharing to
2 comply with AB 8, 2833. We anticipate this report will be
3 presented to the Committee in December.

4 Before moving on to questions, I would like to
5 spend time on two additional slides in the presentation
6 starting on slide 6. As we move to the Investment
7 Beliefs, staff made some changes to the heatmap on
8 Investment Beliefs.

9 We have upgraded Investment Belief number 5 from
10 red to yellow. There is still work to be done on
11 delivering the target returns for the program, but we
12 believe progress has been made and accountability should
13 be moved from red to yellow.

14 Additionally, we wanted to signal there are some
15 areas staff will need to spend some time on in the coming
16 months. This includes ESG integration, as well as the
17 processes and resources needed to implement the growth
18 segment and new business model. Because there is need to
19 focus on these areas, we felt it was prudent to decrease
20 the color from green to yellow.

21 --o0o--

22 INTERIM MANAGING INVESTMENT DIRECTOR CORR: The
23 last slide I would like to cover is slide 24. I would
24 like to point out there is an error on one of the
25 footnotes which has caused some confusion. Originally,

1 profit sharing was only reflected at the bottom of the
2 slide, and not presented as a subcomponent of external
3 management costs in the table above.

4 As a result, footnote 1 was added. Footnote 1
5 should have been deleted when we decided to put the profit
6 sharing in as a subcomponent of external management costs.
7 As for the increase in the asset management fee, year over
8 year, this is largely related to new commitments that were
9 made over the past 12 months.

10 In summary, the program has met the long-term
11 expected return. Staff continues to focus on transparency
12 and refining the business model.

13 With that, Mahboob and I would be happy to answer
14 any questions.

15 CHAIRPERSON JONES: Okay. Thank you.

16 Mr. Jelincic.

17 COMMITTEE MEMBER JELINCIC: If I can go back to
18 slide three, page 1 -- or 291 of the iPad, that's the
19 assets we have in the program.

20 I'm having problems getting there on my iPad.

21 In the asset values, particularly for the growth,
22 the opportunistic, and the venture, and I guess maybe even
23 the buy-out, how much of that is public securities?

24 INTERIM MANAGING INVESTMENT DIRECTOR CORR:

25 Approximately ten percent of the portfolio is in

1 publicly-listed securities.

2 COMMITTEE MEMBER JELINCIC: Okay. So we're
3 paying private equity fees for -- on \$2 billion.

4 INTERIM MANAGING INVESTMENT DIRECTOR CORR: A
5 large portion of that is the stock we hold in Apollo
6 Global, and AAA, which we don't pay fees on.

7 COMMITTEE MEMBER JELINCIC: I'm sorry?

8 INTERIM MANAGING INVESTMENT DIRECTOR CORR: A
9 large portion of that is the public securities from Apollo
10 Global Management and AAA, which we don't pay fees on.

11 COMMITTEE MEMBER JELINCIC: And where do we --
12 and where do those show up?

13 INTERIM MANAGING INVESTMENT DIRECTOR CORR: They
14 are both in the growth category.

15 COMMITTEE MEMBER JELINCIC: Okay. On the next
16 slide, the PEARS, which, you know, fortunately you're only
17 going to have to answer for a couple more months. The
18 final release is expected October of '17. Did it happen?

19 INTERIM MANAGING INVESTMENT DIRECTOR CORR: It
20 did. The release was done in actually early November. So
21 there are a few close-out items for the project, but the
22 implementation is complete.

23 COMMITTEE MEMBER JELINCIC: And the line on the
24 external management costs, were those fees -- the 91 basis
25 points, is that net?

1 INTERIM MANAGING INVESTMENT DIRECTOR CORR:

2 That's purely on the management fees.

3 COMMITTEE MEMBER JELINCIC: Okay. So that -- is
4 that net or gross or --

5 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Net.

6 COMMITTEE MEMBER JELINCIC: Net.

7 And we're finally getting the people who use the
8 template. Which templates are we getting them to use?

9 INTERIM MANAGING INVESTMENT DIRECTOR CORR: For
10 about 95 percent of the capital calls and distributions,
11 we get the ILPA capital call and distribution template.
12 The other template that we use is the ILPA quarterly fee
13 reporting template, and that's the 75 to 80 percent.

14 COMMITTEE MEMBER JELINCIC: Okay. On slide 17,
15 which is the commitments and funded. It's Commitment by
16 vintage year, is that calendar year or fiscal year?

17 INTERIM MANAGING INVESTMENT DIRECTOR CORR:
18 Calendar year.

19 COMMITTEE MEMBER JELINCIC: Calendar year. Okay.
20 And just a couple more.

21 On slide 23, which is the staffing overview, one
22 the things that is surprising is we didn't have any people
23 leave?

24 INTERIM MANAGING INVESTMENT DIRECTOR CORR: We
25 did have some departures over the year.

1 COMMITTEE MEMBER JELINCIC: Okay. So --

2 INTERIM MANAGING INVESTMENT DIRECTOR CORR: So
3 some of the 8 private equity professionals appointed to
4 new -- to more senior positions, would reflect staff that
5 had been -- been put into a different position as a result
6 of a departure?

7 COMMITTEE MEMBER JELINCIC: Okay. So that's the
8 8 Have been put in a different outside of private equity.

9 INTERIM MANAGING INVESTMENT DIRECTOR CORR: No,
10 they had been -- they had received a different position
11 within the Private Equity Group.

12 COMMITTEE MEMBER JELINCIC: Okay. So that's the
13 80. And then we had 10 that transferred to other parts
14 that left private equity and went to other parts of INVO?

15 INTERIM MANAGING INVESTMENT DIRECTOR CORR:
16 Correct.

17 COMMITTEE MEMBER JELINCIC: And how many people
18 did we have who -- from private equity who just left?

19 INTERIM MANAGING INVESTMENT DIRECTOR CORR: I
20 believe 4.

21 COMMITTEE MEMBER JELINCIC: Okay. Okay. The --
22 and then on slide 24, I had written a note about portfolio
23 fees not being shown here. I think --

24 INTERIM MANAGING INVESTMENT DIRECTOR CORR:
25 Portfolio company fees?

1 COMMITTEE MEMBER JELINCIC: Yeah.

2 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Yes.

3 Those will be in the 2833 report that comes out next
4 month, and they're not reflected in this table.

5 COMMITTEE MEMBER JELINCIC: Okay. So the -- so
6 if -- if we have a \$100 million invested, and we're paying
7 1.9 percent, the management fee would ill a million nine.
8 If there's 400,000 in portfolio fees -- portfolio company
9 fees, what number is included here, the million nine or
10 the million and a half that's still --

11 INTERIM MANAGING INVESTMENT DIRECTOR CORR:

12 Estimated the \$400,000 was offset, it would be
13 the 1.5 million.

14 COMMITTEE MEMBER JELINCIC: Okay. So we would
15 only report -- and yet, somehow it got moved from our
16 pocket to the GP's pocket, but it doesn't show up as a
17 cost.

18 INTERIM MANAGING INVESTMENT DIRECTOR CORR: It
19 just reflects the net fees that CalPERS paid.

20 COMMITTEE MEMBER JELINCIC: Okay. The same --
21 same scenario, 100 million, except this time it's a
22 co-invest, what would show up as a cost there?

23 INTERIM MANAGING INVESTMENT DIRECTOR CORR:

24 Assuming that co-investment was no fees, no
25 carry, there would be nothing to show up.

1 COMMITTEE MEMBER JELINCIC: Yeah. So it wouldn't
2 show up. So the 400,000 that got taken out of the
3 co-invest to the GP just doesn't show up as a cost
4 anywhere?

5 INTERIM MANAGING INVESTMENT DIRECTOR CORR:
6 Correct.

7 COMMITTEE MEMBER JELINCIC: Okay. And I again
8 will point out that if it moves from my pocket to the GP's
9 pocket, it's either a cost or a theft, and I don't think
10 it was a theft. So I think we need to capture that.

11 CHAIRPERSON JONES: Ms. Yee.

12 COMMITTEE MEMBER YEE: Thank you, Mr. Chairman.
13 I was just curious to know how other institutional
14 investors are doing with respect to adopting the ILPA
15 templates? I get the feeling that CalPERS and CalSTRS are
16 probably doing a lot of heavy lifting, but just how are
17 the others doing.

18 INTERIM MANAGING INVESTMENT DIRECTOR CORR: So I
19 would say that there has been an increase in the number of
20 LPs that are -- have endorsed the template over the past
21 year. As far as firms in our portfolio that have endorsed
22 it, there are currently 15 firms out of the 92 in the
23 portfolio that have endorsed. That's up from eight a year
24 ago.

25 COMMITTEE MEMBER YEE: Okay. And do we know

1 about other long-term institutional investors like UC or
2 some of the other investors in terms of their --

3 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Many
4 of the State pension funds have endorsed the template.

5 COMMITTEE MEMBER YEE: Okay. All right. And
6 then -- so one of the risks that have been identified was
7 how much of the portfolio is concentrated in the --
8 into fees, and are we starting to see the increased cost
9 from some of the -- the higher fees from some of the older
10 partnerships as they mature? Is that manifesting itself
11 already?

12 INTERIM MANAGING INVESTMENT DIRECTOR CORR:

13 The -- I'm sorry, can you repeat that?

14 COMMITTEE MEMBER YEE: Are we beginning to see
15 the higher fees currently? Has that begun in terms of the
16 older partnership maturing?

17 INTERIM MANAGING INVESTMENT DIRECTOR CORR: So
18 the older partnerships, the fees are winding down on
19 those. They are lower. We are -- but we -- there
20 continues to be fees on incremental commitments, which is
21 why there was an increase in the fiscal year.

22 COMMITTEE MEMBER YEE: I'm sorry. Say that last
23 part. There was some noise.

24 INTERIM MANAGING INVESTMENT DIRECTOR CORR: There
25 continues to be fees on incremental new commitments, and

1 so that was the result why there was an increase in fees
2 for the fiscal year.

3 COMMITTEE MEMBER YEE: Oh, I see. Okay. Okay.

4 And then on slide 25, which we didn't talk about,
5 can you describe the ESG process. So slide 25 says that
6 we follow up with 10 of the largest managers. And I was
7 curious as to what percentage of the PE assets they
8 manage.

9 INTERIM MANAGING INVESTMENT DIRECTOR CORR:

10 What -- of the assets, it's roughly 50 percent.

11 COMMITTEE MEMBER YEE: Fifty percent. Okay. And
12 then is there -- is there a mechanism for monitoring the
13 ESG risks for the rest of the portfolio or --

14 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Yeah.
15 So we do track which firms have ESG policies. Currently,
16 38 of the 92 do have ESG policies. And staff does inquire
17 during advisory Board meetings about policies and any
18 issues.

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

20 CHAIRPERSON JONES: Okay. Ms. Taylor.

21 COMMITTEE MEMBER TAYLOR: Yes. Thank you. Thank
22 you, Sarah. It was a good report. Oops, I lost my page.
23 There we go.

24 On page 23, I just wanted to go back to what J.J.
25 was talking about. So we lost -- we've hired two

1 Investment staff, eight private equity professionals are
2 appointed to more senior positions in private equity?

3 INTERIM MANAGING INVESTMENT DIRECTOR CORR:

4 Correct.

5 COMMITTEE MEMBER TAYLOR: Correct?

6 INTERIM MANAGING INVESTMENT DIRECTOR CORR: (Nods
7 head.)

8 COMMITTEE MEMBER TAYLOR: Okay. And then 10
9 professionals transferred to other areas of the Investment
10 Office

11 INTERIM MANAGING INVESTMENT DIRECTOR CORR:

12 Correct.

13 COMMITTEE MEMBER TAYLOR: So we lost these folks
14 out of private equity.

15 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Yes.

16 COMMITTEE MEMBER TAYLOR: And did I hear you say
17 that -- how many people are left in private equity total?

18 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Four.

19 COMMITTEE MEMBER TAYLOR: That's --

20 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Oh,
21 total. I thought you said total left.

22 There's 35 people currently in the program --

23 COMMITTEE MEMBER TAYLOR: Okay.

24 INTERIM MANAGING INVESTMENT DIRECTOR CORR:

25 -- four people departed CalPERS over the year.

1 COMMITTEE MEMBER TAYLOR: Total. I got you. I
2 got you. Okay. And we are also missing an MID, and IO
3 and some administrative staff, right?

4 INTERIM MANAGING INVESTMENT DIRECTOR CORR:
5 Correct.

6 COMMITTEE MEMBER TAYLOR: Are we recruiting for
7 those folks right now?

8 INTERIM MANAGING INVESTMENT DIRECTOR CORR:
9 Currently, we're recruiting for the
10 administrative support staff --

11 COMMITTEE MEMBER TAYLOR: But not the --

12 INTERIM MANAGING INVESTMENT DIRECTOR CORR:
13 -- but not the other two.

14 COMMITTEE MEMBER TAYLOR: Not the other two. And
15 I assume that's partially because of what we're working
16 towards?

17 INTERIM MANAGING INVESTMENT DIRECTOR CORR: (Nods
18 head.)

19 COMMITTEE MEMBER TAYLOR: Okay. As we -- the
20 only other question I had is over what time frame did the
21 18 folks that it looks like that we moved around and/or
22 got promoted and then four left, over what time frame was
23 that?

24 INTERIM MANAGING INVESTMENT DIRECTOR CORR:
25 That's over a 15-month period. So --

1 COMMITTEE MEMBER TAYLOR: A 15-month period.

2 INTERIM MANAGING INVESTMENT DIRECTOR CORR:

3 -- the 10 that went -- transferred to other parts
4 of INVO happened after July 1st of this year. The rest of
5 them were in the previous fiscal year.

6 COMMITTEE MEMBER TAYLOR: After July 1st of this
7 year, 2017?

8 INTERIM MANAGING INVESTMENT DIRECTOR CORR:

9 Correct.

10 COMMITTEE MEMBER TAYLOR: And then the eight and
11 the -- oh, the eight left prior -- previous to that, and
12 then four moved on to another agency?

13 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Yeah.

14 COMMITTEE MEMBER TAYLOR: Okay. In that 15-month
15 period when we started losing the eight, were we looking
16 at recruiting at that point? Do we know?

17 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Yes.

18 So the eight -- the eight individuals that was over the
19 12-month fiscal year period that they were -- the
20 recruited -- the recruitments happened in that period of
21 time.

22 COMMITTEE MEMBER TAYLOR: There were recruitments
23 in that period of time?

24 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Yeah,
25 those eights --

1 COMMITTEE MEMBER TAYLOR: Oh, okay.

2 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Those
3 eights were recruited.

4 COMMITTEE MEMBER TAYLOR: I'm a little confused.
5 So the either were recruited to a higher position. Did we
6 replace them is what I'm asking?

7 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Some
8 of them were replaced, but not all of them. So in -- as
9 of July 1st of 2016, there were 50 Investment -- or 50
10 staff remembers in private equity.

11 COMMITTEE MEMBER TAYLOR: So we lost a total
12 of --

13 INTERIM MANAGING INVESTMENT DIRECTOR CORR: So
14 there's a net reduction of 15.

15 COMMITTEE MEMBER TAYLOR: Fifteen, yeah.

16 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Ten
17 of that was because individuals transferred to other areas
18 within CalPERS, so they -- and their positions went with
19 them, and the other ones were vacancies that were not
20 filled.

21 COMMITTEE MEMBER TAYLOR: So you're saying the
22 positions went with them, so you lost those positions?

23 INTERIM MANAGING INVESTMENT DIRECTOR CORR:
24 Correct.

25 COMMITTEE MEMBER TAYLOR: Wow. So we would

1 actually have to approve 15 additional positions if we
2 were to continue this size of the private equity office
3 that we had?

4 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Some
5 of those 10 that transferred out are in positions that are
6 still in support of the Private Equity Program.

7 COMMITTEE MEMBER TAYLOR: Okay.

8 INTERIM MANAGING INVESTMENT DIRECTOR CORR:
9 They're just not longer reporting into private
10 equity.

11 COMMITTEE MEMBER TAYLOR: Okay. What -- go
12 ahead, Wylie.

13 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

14 Wylie Tollette, CalPERS staff. In this past
15 summer, we transferred out a group of people in private
16 equity associated with private equity operations who
17 helped process capital calls and distributions, as well as
18 private equity analytics, in other words, the group that
19 is working on developing attribution analytics for private
20 equity. They historically were embedded within the
21 private equity team and we carved them off. And now they
22 report up through me.

23 The idea is to create some degree of independence
24 between the attribution professionals, sort of the score
25 keepers, and the investment professionals. They're still

1 very much in support of trying to ensure that the private
2 equity team has the analytics they need to make good
3 investment decisions. But we found that degree of
4 independence is helpful in ensuring sort of the integrity
5 and the credibility of the information that's produced for
6 the entire office.

7 COMMITTEE MEMBER TAYLOR: Did you do it to our
8 global equities as well?

9 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:
10 That's right.

11 COMMITTEE MEMBER TAYLOR: So you put them all in
12 a separate little enclave?

13 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:
14 That's right.

15 COMMITTEE MEMBER TAYLOR: Okay.

16 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:
17 There are actually two separate enclaves.
18 (Laughter.)

19 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:
20 And we tried not to enclave them too much.
21 (Laughter.)

22 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:
23 We're trying to actually make sure that
24 they're -- the language we like to use is integrated, yet
25 independent. So the information we want well integrated

1 into the decision making of the asset classes, but the
2 production of the reporting we want to be independent and
3 aligned with the group that produces the investment
4 performance, which again is produced somewhat
5 independently from the investment professionals.

6 Again, the idea is to create something of a
7 scorekeeper over the investment decision making, so you
8 can evaluate its effectiveness over time.

9 COMMITTEE MEMBER TAYLOR: Okay. That makes
10 sense.

11 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:
12 That was, I think, 8 of the 10.

13 COMMITTEE MEMBER TAYLOR: Eight of those 10?

14 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:
15 Um-hmm.

16 COMMITTEE MEMBER TAYLOR: All right. Thank you
17 very much.

18 CHAIRPERSON JONES: Mr. Jelincic.

19 COMMITTEE MEMBER JELINCIC: Yeah. On slide 27,
20 the conclusions, 315 of the iPad, the private equity
21 exceeded the global equity benchmark over the 5-, 10-, and
22 20-year time horizon. I assume it also beat the fixed
23 income benchmark?

24 INTERIM MANAGING INVESTMENT DIRECTOR CORR: I
25 don't know what the fixed income benchmark was over those

1 periods of time --

2 COMMITTEE MEMBER JELINCIC: Okay.

3 INTERIM MANAGING INVESTMENT DIRECTOR CORR: -- so
4 I'm not sure I can answer that question.

5 COMMITTEE MEMBER JELINCIC: Did it exceed on a
6 risk-adjusted basis? I mean, it ought to beat the global
7 equity just because there's additional risks.

8 INTERIM MANAGING INVESTMENT DIRECTOR CORR: It
9 exceeded the global equity benchmarks by over 400 -- I
10 think 440 basis points in both the 10 and 20 year. And so
11 to the extent that you would believe that's an appropriate
12 premium for private markets then it did on a risk-adjusted
13 basis.

14 COMMITTEE MEMBER JELINCIC: And so what is the
15 appropriate premium? I mean, when you risk adjust the
16 asset, what kind of returns are we getting on a
17 risk-adjusted basis?

18 INTERIM MANAGING INVESTMENT DIRECTOR CORR: I
19 guess on a risk-adjusted basis, we're receiving a return
20 that is in line with the expected return set up through
21 the asset liability management process, and the capital
22 market assumptions that are set by the Board.

23 COMMITTEE MEMBER JELINCIC: Can you run that by
24 me one more time? I'm not sure I understood.

25 INTERIM MANAGING INVESTMENT DIRECTOR CORR: The

1 returns are in line with the expected return for the asset
2 class as set up by the capital market assumptions that are
3 set by the Board.

4 COMMITTEE MEMBER JELINCIC: So the risk-adjusted
5 return is the global equity plus 300 basis points?

6 INTERIM MANAGING INVESTMENT DIRECTOR CORR: With
7 a higher volatility.

8 COMMITTEE MEMBER JELINCIC: Okay. And have we
9 ever actually tried to figure out what the risk-adjusted
10 return on private equity is? And I guess embedded in that
11 question is have we figured out what the risks are that
12 we're adjusting for?

13 INTERIM MANAGING INVESTMENT DIRECTOR CORR: The
14 risks you would adjust for would be the increased leverage
15 in the portfolio.

16 COMMITTEE MEMBER JELINCIC: Smaller size?

17 INTERIM MANAGING INVESTMENT DIRECTOR CORR:
18 Smaller company size, yes.

19 COMMITTEE MEMBER JELINCIC: The fact that the GPs
20 have an option on when they pay and don't pay?

21 INTERIM MANAGING INVESTMENT DIRECTOR CORR: When
22 they pay and don't pay?

23 COMMITTEE MEMBER JELINCIC: When they call
24 capital, when they give it back.

25 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Yes,

1 the GP's are in control of the timing of the investments.

2 COMMITTEE MEMBER JELINCIC: And one of the other
3 things. In the performance, you talked about 350 basis
4 points in realized -- or 350 billion in realized returns
5 or realized gain.

6 INTERIM MANAGING INVESTMENT DIRECTOR CORR:

7 There's \$3.5 billion of gain, yes.

8 COMMITTEE MEMBER JELINCIC: We had \$7.6 billion
9 dollars in distributions. Where's the roughly \$4 billion
10 difference?

11 INTERIM MANAGING INVESTMENT DIRECTOR CORR: It's
12 the cost base of the investments.

13 COMMITTEE MEMBER JELINCIC: I'm sorry?

14 INTERIM MANAGING INVESTMENT DIRECTOR CORR: It's
15 the return of cost.

16 COMMITTEE MEMBER JELINCIC: It's return of
17 capital?

18 INTERIM MANAGING INVESTMENT DIRECTOR CORR: (Nods
19 head.)

20 COMMITTEE MEMBER JELINCIC: Okay. Thank you.

21 CHAIRPERSON JONES: Mr. Lind.

22 COMMITTEE MEMBER LIND: Thank you. I just wanted
23 to commend what's left of the investment team - we've had
24 some departures and some change - for continuing to move
25 forward in this kind of time of uncertainty in a complex

1 asset class that has a lot of light shining on it all the
2 time, particularly, Sarah, the job that you've stepped up
3 to do. And, you know, J.J. always asked some good,
4 technical, important questions, and I appreciate that, and
5 you were spot on on most of the answers, some complex
6 materials.

7 So thanks for the work that you're doing and the
8 rest of the team. And I know we're going to have a lot of
9 discussion about what the business model is going to be
10 and all of that, but I just wanted to, you know, point out
11 your good work.

12 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Thank
13 you.

14 CHAIRPERSON JONES: Mr. Bilbrey.

15 COMMITTEE MEMBER BILBREY: Thank you, Mr. Chair.
16 Going back to Ms. Taylor's questioning. Are we
17 going to be recruiting for the MID or IO position?

18 CHIEF INVESTMENT OFFICER ELIOPOULOS: I'll take
19 that one, Mr. Bilbrey. Ted Eliopoulos, Chief Investment
20 Officer. I've been holding off on recruiting for the MID
21 until we conclude our business model discussion. So I
22 think in an ideal world we'd have some -- we'd have some
23 idea of the strategy we'll be pursuing before we open that
24 recruitment me. So hopefully our discussions will
25 progress this -- in closed session today, and into the end

1 of the year, and we'll be in a position to open that
2 recruitment.

3 COMMITTEE MEMBER BILBREY: Is that the same as
4 also adding others back into some of the positions?

5 CHIEF INVESTMENT OFFICER ELIOPOULOS: No. No, I
6 think within the -- I think within the group that really
7 will depend on needs of the asset class and whether or not
8 we think we need to fill that position now or into the
9 future.

10 COMMITTEE MEMBER BILBREY: Okay. And then going
11 back to Mr. Jelincic's talk, why haven't we recorded the
12 \$400,000 that was mentioned about fees? You said it was
13 nowhere recorded, why is that?

14 INTERIM MANAGING INVESTMENT DIRECTOR CORR: So
15 when we present the report next month to comply with 2833,
16 it will include that the fees that the portfolio companies
17 paid to the firms. It was not presented in this slide,
18 because the information is --

19 COMMITTEE MEMBER BILBREY: So it will be in that
20 report?

21 INTERIM MANAGING INVESTMENT DIRECTOR CORR:
22 Correct.

23 COMMITTEE MEMBER BILBREY: Thank you.

24 CHAIRPERSON JONES: Mr. Feckner.

25 COMMITTEE MEMBER FECKNER: Yes. Thank you.

1 Now, Wylie, I think you mentioned the fact that
2 the -- you're -- the team that you have that you carved
3 out to do the analysis, you also did the same thing with
4 global equity, correct? Did you backfill global equity
5 when you -- when those people came out of that branch to
6 move into the new branch?

7 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

8 Not completely actually. They reallocated some
9 of the roles. And so I think the math gets tricky,
10 because at the same time we were taking on some of that
11 work, the global equity team was staffing up as part of
12 their re-adoption of the corporate governance activities.
13 So you might recall last year, we moved some of the
14 corporate governance work out of our global governance
15 team into global equity.

16 But the short answer is is that global equity
17 attribution, because of the robust level of data that's
18 available is a much less data and personnel-intensive --
19 it's much less personnel intensive activity than trying to
20 attribute performance in private equity where the data is
21 sort of splotchy, and the -- even sort of the art and
22 science of attribution is not yet well matured in the
23 private equity space, so it's a much more labor intensive
24 activity. And frankly, it's new for CalPERS.

25 Another element that's underlying a lot of these

1 personnel transfers that are highlight in the agenda item,
2 as well as in Meketa's letter is the fact that the PEARS
3 project, which has really been a huge work effort for the
4 private equity team for the last five years, is actually
5 now, as you heard, drawing to a close.

6 And so with the drawing to a close of this
7 substantial systems implementation effort, I think the
8 entire team here, Sarah and Mahboob and private equity
9 team have been reevaluating sort of where to devote time
10 and attention and resources, and how best to organize
11 those resources. Now that that project and the
12 implementation of effort -- now that we're moving into
13 production, we're hopeful that we would see some
14 efficiency gains with the implementation of PEARS.

15 So that's kind of an underlying element
16 underneath some of these -- some of the personnel changes
17 and transfers that you're seeing.

18 COMMITTEE MEMBER FECKNER: So aside from the
19 analysis, do you think we did the same amount of rigor in
20 recruiting and backfilling in global equity as we do -- as
21 we did or not -- did not do in private equity, and if not,
22 why not?

23 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: I
24 think I know the answer to your question. And I think the
25 answer to your question is is we -- well, I think I

1 understand your question, so -- your question is is did
2 we -- is private equity -- is private equity suffering
3 from a lack of adequate resources right now?

4 And I think we're in the middle of assessing
5 that. And part of the question is, the global equity
6 business model we don't anticipate dramatic changes in the
7 near future in the global equity business model. And so
8 as a result, we -- we haven't had to shift resources
9 around or evaluate the use of those resources in the same
10 way. So when we did the -- when we took on the
11 attribution work, not only was it much less labor
12 intensive for my team to take on that work, it was also
13 less of an impact on global equity to lose it, because
14 it's much ore efficient work, much more automated, where
15 in private equity, we have too much more uncertain
16 variables.

17 The first is that the work -- the actual
18 attribution work is much less settled. It's much more of
19 a research effort and initiative than it is an automation
20 production workflow at this point. We're working towards
21 creating that.

22 And then number two, we had these large questions
23 in the near future on which direction we're going to take
24 with our private equity business model that affect the
25 staffing questions. So all of those are -- are sort of

1 at -- in flux right now as a part of this staffing picture
2 that we're trying to present to you.

3 COMMITTEE MEMBER FECKNER: Thank you.

4 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

5 But I think your answer -- you're asking exactly
6 the right question, and I would encourage those kinds of
7 questions, because frankly we're in the middle of
8 evaluating exactly that -- exactly that question.

9 We still have one of the largest private equity
10 teams in this space. Many other -- many other public
11 pension plans with portfolios that are not as large as
12 ours, but have many of the same partners and many of the
13 same partner relationships, have much, much smaller staffs
14 and have a very different model.

15 CalPERS has a large and capable staff that's been
16 influenced over the time by the degree of monitoring
17 activity, the degree of automation, and the degree of
18 reporting demand that our private equity team demands from
19 our partners. All of that, as you know, is one of the
20 questions that we're considering as part of our private
21 equity review.

22 CHAIRPERSON JONES: Okay. Thank you.

23 Mr. Jelincic.

24 COMMITTEE MEMBER JELINCIC: Three comments and a
25 question. Having been in the real estate unit when they

1 went through AREIS, I sympathize with what you went
2 through with PEARS. And I think we should acknowledge
3 that that involves a lot of extra work, and I do
4 appreciate the effort.

5 The MI -- delaying the MID recruitment I think is
6 appropriate, since it's kind of hard to recruit for a
7 position if you can't say this is what the job is. So I'm
8 actually supportive of that.

9 Moving the scoring -- scorekeepers and the
10 compliance people out from reporting to the people that
11 are running the portfolio is also something I support. In
12 fact, I have advocated that we ought to not just do that.
13 We ought to move them out of the investment office and
14 have them report elsewhere and create even more
15 independence.

16 But my question is to Sarah. Sarah, you said
17 that when the report we get next month, portfolio fees
18 will be included. Will we see both portfolio fees that
19 are offset and any portfolio fees that are not credited
20 back to us?

21 INTERIM MANAGING INVESTMENT DIRECTOR CORR: So
22 the requirement is to show CalPERS pro rata share of the
23 offsettable fees.

24 COMMITTEE MEMBER JELINCIC: Okay. And if it's
25 not offsettable, it continues to be a non-cost.

1 INTERIM MANAGING INVESTMENT DIRECTOR CORR: It
2 would be in the report.

3 COMMITTEE MEMBER JELINCIC: Okay. Thank you.

4 CHAIRPERSON JONES: Okay. Well, I want to thank
5 Ms. Corr for a very well prepared presentation. So we
6 thank you for your efforts.

7 We do have a request to speak on this item.
8 Margaret Brown, if you'll come forward to my left here.
9 And you will have three minutes to speak, and there's a
10 timer right in front of me here that will alert you to the
11 time you have during your presentation.

12 MS. BROWN: Thank you.

13 My name is Margaret Brown and I'm a candidate for
14 the CalPERS Board. Today, I'm here this morning to read
15 from an op-ed accepted by the Sacramento Bee for
16 publication. This author is Eileen Appelbaum an economist
17 with the Center for Economic Policy and Research in
18 Washington D.C.

19 "Meeting returns for private equity funds
20 launched since the financial crisis have failed
21 to beat the stock market by enough to
22 compensation for the increased risk. Pension
23 plans know that high prices to acquire companies
24 today means lower future returns.

25 "So does CalPERS plan to reduce the 26.2

1 billion allocation to private equity? Is CalPERS
2 going to outsource management of these
3 investments, pay fees, and risk even lower
4 returns?

5 "Instead, it looks like CalPERS staff is
6 asking the Board to lower the bar. This may make
7 private equity investments look better, but will
8 do nothing to assure private equity investments
9 earn adequate returns.

10 "The proposed benchmark gives less weight to
11 better performing U.S. stocks and cuts the risk
12 premium to just 1.5 percent. Does staff believe
13 that private equity has become less his risky or
14 is this an admission that returns will be lower?

15 "The new benchmark will be easier to beat and
16 practically guarantees this staff an easy A.
17 This Board is charged with overseeing the prudent
18 investments of taxpayer dollars and protecting
19 our retirement earnings. There needs to be an
20 honest assessment for private equity performance,
21 and this Board should ask the staff for serious
22 recommendations for how to address lower returns
23 in the future".

24 Thank you

25 CHAIRPERSON JONES: Thank you.

1 The next item on the agenda is the consultant's
2 review of the Private Equity Program, Meketa Investment.

3 MR. HARTT: Good morning. Steve Hartt with
4 Meketa Investment Group. A number of the items that I was
5 going to cover have been covered in -- by Sarah's report
6 as well as the questions. But a couple of items just to
7 go through sort of four areas: The performance, the
8 program, policy, and people.

9 As has been noted, the performance for the
10 program has been below the benchmark on the one, three,
11 five, and since inception periods. That hasn't changed
12 very much in the last several years. The program itself
13 at \$25.9 billion, that size of AUM has actually shrunk
14 since last career.

15 In large measure, that was due to the positive
16 cash flows, meaning CalPERS has received more cash back
17 than what has been deployed in, and that has more than
18 offset the amount of gain that's taken place in the
19 portfolio. So as mentioned, over \$7 billion returned, \$3
20 billion has come back, and there was a \$3.3 billion
21 overall gain. So overall, it's just not been enough, in
22 terms of the gain, to offset the cash flow.

23 Another note that this is the 7th year in a row
24 that you've received more cash back than what has been
25 going into the Private Equity Program.

1 From the policy perspective, we talked a little
2 bit in our report about the core 30, the strategy to focus
3 the program on some of the largest and highest performing
4 managers that were selected some years ago. The idea of
5 trying to reduce the complexity concentrate the fees and
6 the costs, and to make it overall an easier program to
7 manage.

8 That being said, we see some -- certainly some
9 positive aspects of that, that there has been some
10 reduction in some of the flow that's taken place in terms
11 of the reporting, but overall, it has not been going down.
12 There's been a lot of monitoring concentration in the
13 workflows that are done by the staff have continued to be
14 very high.

15 We're not seeing the kind of partnership
16 opportunities where there's co-investments and separate
17 accounts that can be taken advantage of working with some
18 of these partners. In some cases, it might be a little
19 bit of how a number of these large managers tend to want
20 to do their partnership activities. What I mean is there
21 can be groups like Blackstone or Carlyle that look to do
22 partnership activities across a number of asset classes,
23 as opposed to just in private equity. And working with
24 CalPERS to do those kind of activities across multiple
25 asset classes could be a little bit complex and perhaps

1 that's something that can be looked at into the future.

2 The other aspect, the amount of commitments and
3 the dollars being commitment -- committed every year, for
4 reasons we're not fully understanding, the number of
5 commitments has come down over time. We're seeing that in
6 most cases, the Private Equity Program is able to achieve
7 its target allocation with each manager, but not in every
8 case.

9 Some cases, it's a very -- we've observed that
10 there be a very attractive high-end demand manager, and
11 the amount of capital that CalPERS is looking to deploy is
12 not being met, not getting everything that you wanted.

13 Quickly from a policy perspective, the program is
14 within its policy ranges on the strategy and the
15 geography. We did note here about the discussion last
16 December about changing the benchmark from -- to the
17 global equities benchmark. And we've talked quite a bit
18 about the staffing, the 35 people as of September.

19 I did talk in our memo a little bit about, as
20 you're familiar, about how that staff is organized into
21 the three groups: the underwriting, the investment
22 management, and the risk reporting; and the certain
23 benefits around that, in terms of being able to have
24 multiple eyes looking on the particular manager.

25 But we do note that there can be some

1 inefficiencies also in that structure, and particularly
2 thinking about how the monitoring people, and their work,
3 and their interactions with the general partner and the
4 underwriting that there can be some possibility that some
5 information is missed, or that there's just a little less
6 coordination in terms of, for instance, the GP kind of
7 knowing who to speak to about particular activities at
8 times that they need to speak to CalPERS.

9 So I'm happy to answer any other questions or
10 follow-ups.

11 CHAIRPERSON JONES: Yes, we have a few questions.
12 Mr. Jelincic.

13 COMMITTEE MEMBER JELINCIC: In your memo, you
14 talk about the fact that staff has proposed that the
15 benchmark be changed to global equity benchmark, which we
16 did, plus 150 basis points, which we have not yet done.
17 Do you -- what's -- does that make sense to accept only
18 150 -- to set as a target only 150 basis points over the
19 public market?

20 MR. HARTT: The --

21 COMMITTEE MEMBER JELINCIC: And just so you can
22 think about it, I'm also going to ask, you know, what
23 other benchmark you would consider, and how you would risk
24 adjust this asset class?

25 MR. HARTT: So to do the second question first,

1 let's say. So the other benchmarks -- what has been
2 proposed here and what's being discussed is an alternative
3 to the public equities. The other kinds of benchmark are
4 peer-oriented benchmarks. What do other private equity
5 programs do, what do other -- looking at the whole private
6 equity universe, how are those funds performing? So those
7 peer indexes.

8 And those -- you know, one of those providers is
9 State Street that CalPERS does use. And the performance
10 in there in various reports I've seen has gone back and
11 forth. Overall, it's a second quartile. It's a
12 middle-of-the-pack kind of performance compared to
13 everything else that's out there. So that's a -- one
14 performance benchmark that people have used. Another one
15 is, you know, public market equivalent, whether or not
16 you're getting extra return compared to the alternative of
17 being invested in public markets.

18 And what we've talked about here right now is the
19 time-weighted return comparing the private equity
20 performance to public equities.

21 So the two components talked about the movement
22 of the benchmark from the two-thirds/one-third to the
23 global equities all markets, that was discussed, and then
24 your last point about the spread.

25 So what we've observed is that over time, the

1 spread between public equities and private equities has
2 compressed. That is something that -- you can look at
3 CalPERS returns, you can look at various other providers
4 out there, that that is a spread differential that has
5 compressed over time.

6 What is the right number, whether 300 or 150,
7 probably depends on the make-up of the program. There's
8 probably no one right answer for that.

9 Does it make sense for this program? I think it
10 depends on what it is that you want to measure at the end
11 of the day. And your questions about what is the risk
12 profile of the -- of the portfolio, and exactly being able
13 to measure and understand what that is, probably changes
14 over time.

15 COMMITTEE MEMBER JELINCIC: I notice that
16 CalSTRS, their short-term benchmark is we want to be
17 better than our peers by beating the State Street Index,
18 which basically says this is how the industry performed.

19 Longer term, they're saying Russell, which
20 recognizes the smaller cap plus 300. Does that kind of
21 split make sense?

22 MR. HARTT: So I think what CalSTRS is looking to
23 try to do is by having the peer indices for short periods,
24 and the public equities index benchmark for longer
25 periods. I think what they're looking to try to do is

1 that over a shorter time period, there can be differences
2 in performance that can be reflected in one asset class or
3 another, public equities and private equities in different
4 ways, and different time periods. And we want to try to
5 smooth that set of observations.

6 So in shorter time periods, it might not be as
7 meaningful to compare the performance of a Private Equity
8 Program with the public equities because there can be
9 changes in the way that that -- that different asset
10 classes are performing. Although, at the end of the day,
11 they're linked.

12 But then at the end of the day, looking for the
13 private equity asset class to perform in some meaningful
14 way above the alternative investing in public markets.
15 Otherwise, it can be difficult to accept the risks, the
16 liquidity, the lack of transparency if you're not getting
17 extra returns compared to public equities.

18 COMMITTEE MEMBER JELINCIC: Okay. And can you
19 comment on the difference between our co-investment
20 program and the CalSTRS co-investment program?

21 MR. HARTT: I think that there are similarities.
22 What's going on right now in the CalPERS program is that
23 there are no new co-investments taking place. So that's
24 the biggest difference. CalSTRS is doing it, CalPERS is
25 not.

1 I think that when CalPERS was doing the program,
2 we were not involved at that time, but my recollection, my
3 understanding of that program was that the sourcing and
4 the execution were similar to what CalSTRS is doing now,
5 the looking to utilize the relationships and partnerships
6 they have with some of the leading general partners to
7 source interesting and attractive investment
8 opportunities, and choosing attractive investments among
9 the pool of opportunities we're able to source.

10 COMMITTEE MEMBER JELINCIC: In the case of
11 CalSTRS for infrastructure, they're actually going in
12 early in the program helping to do the underwriting. Were
13 they also doing that in private equity?

14 MR. HARTT: Early in the program -- can you
15 explain that about early in the program?

16 COMMITTEE MEMBER JELINCIC: The -- when -- in
17 there infrastructure program, one of the things they
18 actually do was they do the underwriting. They figure out
19 whether this investment makes sense, you know, many of the
20 functions that we've normally contracted out to GP. Are
21 they doing the same thing in private equity or were they
22 doing the same thing in private equity?

23 MR. HARTT: So right now, my understanding of the
24 CalSTRS program is their co-investment program is focused
25 on identifying and executing investments with the

1 partner -- general partners that they have in the program,
2 that there's not a other separate program that they're
3 looking to do different sorts of things too.

4 COMMITTEE MEMBER JELINCIC: Okay. And my last
5 question.

6 CHAIRPERSON JONES: Before you -- Mr. Jelincic,
7 before your last question, Mr. Eliopoulos wanted to make a
8 comment.

9 CHIEF INVESTMENT OFFICER ELIOPOULOS: I just -- I
10 asked Eric Baggesen to come up to talk about the
11 benchmark, because I want to make sure it's very clear to
12 the Committee this difference between 300 and 150 basis
13 points. We covered it a couple months ago, the difference
14 between the arithmetic and geometric returns. There is no
15 reduction in the spread, but I thought Eric could just
16 emphasize that now, just because I want to make sure I
17 heard the public comment and I heard some of this
18 discussion and I think it's worth underscoring for clarity
19 purposes, but it's the Committee's discretion --

20 CHAIRPERSON JONES: Yeah, Mr. Baggesen.

21 MANAGING INVESTMENT DIRECTOR BAGGESEN: Good
22 morning, Eric Baggesen, CalPERS staff.

23 Yes, Ted is exactly right. This change in the
24 compound rate that's being applied to the margin on top of
25 the public markets is actually something that really was

1 actually approved by this Board in 2015. So in other
2 words, our capital market assumptions in 2013 -- I can
3 reference the actual agenda item.

4 It was Agenda Item 6A, attachment 1 on June 17th
5 of 2013 specified an expected return for private equity of
6 9.33 percent. Our public equity return at the same time
7 was 7.75 percent. That's a compound return difference of
8 158 basis points. Three hundred basis points is an
9 artifact attached to the calculation of arithmetic
10 returns.

11 So this is this constant statistical gyration
12 that we do to try to understand the difference between an
13 average return, which is simple arithmetic return and the
14 effects of compounding which is when your money is
15 basically staying invested in the marketplace.

16 This gets into the asymmetry that, if you recall
17 John Cole's discussion probably almost a year ago, maybe a
18 little bit more about the asymmetry of downside risk
19 versus upside risk.

20 So, for example, if you have a return -- if your
21 return falls, if you lose one-third of your portfolio, it
22 takes a 50 percent gain to get back to where you were. So
23 there's an asymmetry to the downside.

24 That asymmetry, the way that you adjust
25 statistically from an arithmetic return to get to a

1 geometric or compounding return is you typically take away
2 from the arithmetic return one half of the variants, which
3 is simply the square of the standard deviation. So this
4 gets into a whole array of statistical measurements.

5 But basically, the 150 basis points that we're
6 talking about compounding is almost identical to the 158
7 basis points that we had four years ago when we adopted
8 the capital market assumptions. It's the actual
9 application of what has been being compounded within the
10 State Street performance system that has been incorrect.

11 They took the arithmetic number in contrast to
12 the compound increment that was actually approved by this
13 Board. That's what we're trying to correct is just make
14 sure that the calculation is done appropriately and in --
15 consistently with what this Board has actually approved.

16 And that's, you know, been one of the things that
17 I've tried to emphasize to the private equity team is
18 that, you know, we need to be advocates of making sure
19 that this calculation is done appropriate to the numbers
20 that are actually adopted in our sets of assumptions.

21 But just to belabor this point a little bit more,
22 just -- you know, there's been a bunch of comments about
23 whether or not the 150 basis points is enough, or not
24 enough, or anything else, or the expect -- expectation
25 around returns. So one of the things that we did was to

1 look at -- there's a survey that comes out from an
2 actuarial firm called Horizon.

3 And Horizon surveys every year and sets up
4 long-term market assumptions. And they do that by
5 surveying 35 investment managers basically around the
6 globe. When we look at the 2017 Horizon survey, if you
7 look at private equity, the minimum expected return for
8 private equity in the Horizon survey was 6.6 percent. The
9 highest expected return was 12 percent.

10 Basically, our survey that we do across our
11 managers and consultants, we saw a minimum of 7 percent
12 and a maximum of 9.3 percent. Our assumption is an 8.3
13 percent rate of return on top of public equities which
14 have a 6.8 expected return. So again, that's the 150
15 basis points.

16 Our assumption on private equity though comes in
17 about the 25th percentile. So it's in the bottom portion
18 of that distribution, but it is by no means the lowest
19 number that is there. And, you know, it's just important
20 to understand the context around these numbers, because
21 there's been a lot of misinformation about what is
22 happening here. But we're literally just trying to ensure
23 that the calculations are done appropriately when we talk
24 about long-term compounding of returns.

25 And I'm not sure, does that answer the question

1 or does anyone --

2 CHAIRPERSON JONES: Yeah. That's okay for now.
3 Mr. Jelincic, your last question.

4 COMMITTEE MEMBER JELINCIC: Well, he created a
5 new question.

6 On the last Board -- or last Committee action,
7 when we amended the policy -- we changed the policy, the
8 Total Fund Investment Policies and left the rest alone. I
9 will quote from it. For private equity, what we just
10 voted on was the 67 percent FTSE U.S. Total Market plus 30
11 percent FTSE All-World, plus 300 percent. You know, so
12 that's -- it seems to me there is an inconsistency in what
13 we are saying.

14 And -- oh, this goes back to the top 30 for the
15 consultant. And it's -- you've raised the issue that it
16 hasn't worked quite as well as we had thought. You know,
17 when people like Blackstone say, well, there is a -- on
18 their earnings conference call, they said there's a large
19 public fund that is trying to get down to 30 private
20 equity managers. They didn't identify who it is, but I
21 can think of at least one, and -- or basically, you're
22 saying to us how much money can you take? That certainly
23 undercuts our ability to negotiate fees.

24 How much of the inability to get the reductions
25 do you think is limited to the fact that we've said, hey,

1 you know, this is our universe of players?

2 MR. HARTT: So if I'm to understand your
3 question, does the fact that a list of 30 managers, does
4 that impact CalPERS' ability to negotiate fees with groups
5 like Blackstone?

6 COMMITTEE MEMBER JELINCIC: Yeah. I mean, you
7 referenced, you know, our top 30 in your report. Do you
8 think the fact that we've identified that has hurt or made
9 it more difficult to cut fees?

10 MR. HARTT: I think it's made no difference.

11 COMMITTEE MEMBER JELINCIC: It's made no
12 difference?

13 MR. HARTT: No difference.

14 COMMITTEE MEMBER JELINCIC: Okay. Thank you.

15 CHAIRPERSON JONES: Ms. Yee.

16 COMMITTEE MEMBER YEE: Thank you, Mr. Chairman.
17 We've kind of been exploring this question about
18 staffing. And I understand what's happened relative to
19 the reductions. But I guess for the consultant, in terms
20 of reaching the \$4 billion commitment target, is it going
21 to require more staffing than what's currently in place?

22 MR. HARTT: Currently, CalPERS -- so there's --
23 there are two parts to the question. So one is what is
24 the staff's ability to process the paperwork, and the --
25 you know, being able to make the manager selections?

1 And the other is, frankly, of that list of
2 managers, what is their fundraising pace? How often are
3 they in the marketplace, and it's attractive investment
4 opportunity with those managers?

5 So I think on the first part with the staff of 35
6 and the underwriting team that's there, they are
7 processing 3.3 last year. They have a target of four
8 billion this year. That does not seem to be too much of a
9 stretch for that team to be able to execute on that.

10 What I'd say is that there is some challenges in
11 being able to deploy more than that, if you have a list of
12 30 managers, because right now, it's a pretty attractive
13 fundraising market. Maybe next year or the year after,
14 maybe those managers will not be in the market so much, so
15 be relegated to look to other managers and other
16 strategies, let's say, to be able to deploy capital that
17 sort of size.

18 Or if you want to do even further, which I
19 would -- I think that, you know, based upon the pacing
20 models that I've seen from staff, that it's going to take
21 more than \$4 billion a year to be able to maintain the
22 target, much less grow it.

23 COMMITTEE MEMBER YEE: Okay. All right. I guess
24 also relative to staffing, I was -- and first of all, I
25 appreciate really the thorough report that you've provided

1 in terms of the program review.

2 On page six of your report, you do highlight
3 some -- some thoughts about the structure of the private
4 equity staff, in terms of the organization into
5 underwriting and management and the risk research
6 analysis. And I guess my question here is do you see the
7 need for a change with respect to a restructuring that
8 would allow continuity of the CalPERS relationship between
9 underwriting and the investment management group? I mean,
10 is there -- is there something that should be improved
11 relative to the structural relationship.

12 MR. HARTT: Well, the structure was put in place
13 for specific reasons. And the -- there's benefits to that
14 in terms of having a different set of eyes looking at the
15 potential investment opportunity versus looking to see
16 whether that manager is doing a good job of executing on
17 their investment strategy.

18 So there was a decision that was made on that.
19 And in order to have separate eyes, you need to have
20 some -- two different groups on it. That being said, one
21 of the issues that comes from that is there can be some
22 friction in terms of being able to share information
23 between the groups. Does the underwriting group have as
24 deep a understanding of the team not having been involved
25 in monitoring, not necessarily going to all the annual

1 meetings, not being on all the quarterly calls and
2 listening to who's saying what and when?

3 You know, those sorts of nuances I know that the
4 monitoring team does a very good job. I looked at the
5 reports in terms of, you know, how they look to describe
6 all that and put that into the reports, but there can be
7 some nuances that are gained from sitting next to, you
8 know, the general partner, manager and, you know, talking
9 to them at a dinner or over a cup of coffee that may not
10 be as easily transferred to sort of on paper.

11 That being said, I know that the portfolio
12 management team does interact with -- with the
13 underwriting team and also participates in the
14 underwriting discussion, and is invited to share their
15 thoughts and understanding.

16 COMMITTEE MEMBER YEE: So this is really more of
17 a less of a need for revising the organizational
18 structural and maybe more -- related to more robust
19 communications across groups.

20 MR. HARTT: Keeping that -- and then the other
21 side of the question has to do with the general partner.
22 If the general partner has a question or an issue, you
23 know, who is it at CalPERS I should speak to? You know,
24 the monitoring team does have the staff to go do that.
25 But, you know, if there's an amendment change or things

1 like that, those are in the monitoring side when it comes
2 to a new investment opportunity - you know, not doing
3 co-investments now, but you know a new fund that's coming
4 it will have to be directed towards the underwriting team.

5 So just in terms of having a point of contact
6 that is the CalPERS point of contact, because it's a
7 split, there's just going to be two different people.

8 COMMITTEE MEMBER YEE: Okay. You also mentioned
9 a trend of fewer proposals and commitments over the past
10 few years, but also not feeling comfortable in terms of
11 putting the reasons forth as to why that is. Is that
12 something that would require a further look or is it
13 something that you can speculate as to why that's
14 happening at this point?

15 MR. HARTT: I think it would take some further
16 look. So I came across these statistics as doing the
17 portfolio review, and thinking about that and asking staff
18 about, you know, how things have been in the past and the
19 flow. And I saw those statistics and asked the staff some
20 questions. Didn't have really a complete answer for that.

21 So it's hard to really -- to fully speculate.
22 It's -- I just, you know, observe from looking at the
23 fundraising pace in the marketplace has been pretty
24 consistent over the last several years about how many
25 managers and the amount of capital being raised. And so

1 it just seems a little odd that there would be, you know,
2 fewer proposals coming in to CalPERS over those years, you
3 know, given that the fundraising pace has been quite
4 strong.

5 COMMITTEE MEMBER YEE: Okay. Mr. Chairman, I
6 would ask that, if we could get a little deeper dive on
7 that issue, just to get a better understanding, and really
8 just working with the staff to try to get to that
9 understanding would be appreciated.

10 Then my last question has to do with this Core 30
11 manager strategy. And, you know, one of the things that's
12 always, you know, I think on our minds is are we missing
13 opportunities? And so with respect to this Core 30
14 strategy, you've identified certainly some benefits that
15 could be gained from such a strategy, but also the fact is
16 that we haven't realized some of these benefits.

17 So do you have any thoughts with respect to
18 whether we should drop that concept and instead look at
19 diversifying our managers?

20 MR. HARTT: So there is -- I think, as you're
21 aware, there is a separate list of a few managers that
22 they -- that the staff can invest outside of the 30, and
23 they are reviewing those -- one manager that's just come
24 through from that list that is being approved, and I know
25 there's some others that are being considered.

1 So staff also thinks through who is on that list
2 of 30, and there may be some changes over time. It just
3 makes sense that maybe performance changes for the
4 particular manager or someone else shows up as something
5 more attractive. So there is a process by which that list
6 of 30 changes.

7 Lastly, I'll note that from what I've heard from
8 staff more recently is that they would look to have some
9 more than just 30 managers on their list. I don't think
10 there's been a decision as to exactly how many, but I know
11 that other plans do have a larger set.

12 One of the issues with the -- having the 30 is --
13 I mentioned in the letter about the concentration of
14 strategy. In order to have the list, in order to deploy
15 the size of capital, that kinds of ends up being
16 relatively large check sizes, which tends to be a
17 concentration into the buyouts and maybe some of the
18 credits area where it can take that sort of capital.

19 And it tends to make the portfolio less
20 concentrated in some of the other areas. So there can
21 be -- there's some issues in not having as diversified a
22 portfolio that may be looked to have that enhanced, if you
23 have some more managers there. So it's a matter of
24 thinking through what's the strategy and approach and how
25 you're going to deploy against that.

1 And there's obviously a lot of discussion about
2 the business model, and that I think should be wrapped up
3 in that.

4 COMMITTEE MEMBER YEE: Okay. Okay. I appreciate
5 that. Thank you.

6 CHAIRPERSON JONES: Thank you.

7 Mrs. Mathur.

8 COMMITTEE MEMBER MATHUR: Thank you, Mr. Chair.

9 First, a suggestion, I sense that there remains
10 some confusion about the benchmark question. And I'm
11 wondering if providing the actual formula that translates
12 the arithmetic to the geometric might be helpful, so we
13 can see it as opposed to visualize it, while it's being
14 explained. And that might be something that members of
15 the -- of our -- of the public would be interested in as
16 well. So that's just a suggestion.

17 I want to come back to this 30 -- the Core 30
18 question. And I really appreciated the way you outlined
19 the -- your observations about how it has played out so
20 far. And I guess my question for you is obviously private
21 equity by its very nature is a less diversified portfolio
22 than global equities. I mean we have 10,000 plus
23 companies that we hold in public equities, but in private
24 equity it's a much smaller number.

25 But what do you think is the -- you touched on

1 this a little bit maybe, but not quite getting -- getting
2 all the way to the answer. But what do you think for an
3 organization of our size is the right level of
4 concentration versus diversification in the private equity
5 portfolio mix of very large, obviously buy-out funds and
6 medium-sized? Maybe we wouldn't do so much with the very
7 tiny. Although, we do have our emerging markets program.

8 But do you have a sense of what sort of the sweet
9 spot might be for an organization -- for an organization
10 of our size with a desire to deploy -- you know, I know
11 our target for this year is four, but I think we'd like to
12 be even higher than that, six, eight.

13 So what -- yeah, I'll stop there and see if you
14 have any comments.

15 MR. HARTT: You know, really I'd like to take
16 back, and if -- I'd like to do more research to come up
17 with that. Because what I'd like to do is to look, you
18 know, over time, you know, commitment paces, take a look
19 and see more specifically about benefits of
20 diversification or not. I'd like to get a better answer
21 for that.

22 COMMITTEE MEMBER MATHUR: Okay.

23 MR. HARTT: I think that it's just an observation
24 seeing that having a focus on 30 managers does provide
25 some opportunities, but also has some issues and

1 considerations that are there that can make it challenging
2 to deploy the rate of capital. So I think that, you know,
3 the two parts of the issue have to do with the deployment
4 of the capital and what sort of bullpen do you want to
5 have to be able to effectively deploy that capital, being
6 able to make the choices and still get the amount of
7 capital out the door, but also the impact of the
8 diversification?

9 You know, how much do you need to have in some of
10 these other strategies in order to be meaningful in
11 difference? If you just have a little bit, it's not going
12 to really move the needle, right?

13 So at some point, it has to be enough to make it
14 worthwhile. And to be, you know, truly thoughtful about,
15 okay, let's just assume, for instance, if it's possible
16 that the small buyouts does outperform large buyouts or
17 mega buyouts. Well, you know, being realistic at CalPERS
18 size, how much would they have to deploy in small buyouts
19 in order to move the needle in any meaningful way in terms
20 of the performance. In looking at that number, can that
21 actually be done? Can you find enough or would you have
22 to have a hundred different small buyout managers?

23 So I think -- I think to have a better answer,
24 I'd like to work with staff and come up with a more
25 concise reply to that.

1 COMMITTEE MEMBER MATHUR: Thank you. Mr. Chair,
2 if I might, I think that would be really useful for this
3 Committee --

4 CHAIRPERSON JONES: Yeah. Right.

5 COMMITTEE MEMBER MATHUR: -- as we're considering
6 things right now.

7 CHAIRPERSON JONES: I agree.

8 COMMITTEE MEMBER MATHUR: Thank you.

9 CHAIRPERSON JONES: Okay. And we will do that as
10 a direction.

11 COMMITTEE MEMBER MATHUR: So if I could just -- I
12 just have one more question around this.

13 One of the things you mentioned is that there has
14 been really no impact on our ability to negotiate fees
15 with respect to this concentration. Is it your belief or
16 impression that if we were -- you know, if we were
17 negotiating with more moderate-sized funds or partners,
18 GPs, with somewhat smaller funds, then we would have more
19 negotiating power? We'd actually be able to be more
20 effective in negotiating down fees?

21 MR. HARTT: So let me just go back. So my
22 comment is what I'd heard from staff is that CalPERS has
23 not been consistently effective in getting a reduction in
24 fees that they paid compared to other similarly situated
25 large investors. So what happens pretty commonly is that

1 you get a volume discount from some managers, right? Not
2 everybody, but some managers will give you a fee break for
3 making commitments in size.

4 In general, my understanding from staff, that has
5 been available to other large investors that are willing
6 to make, you know, similar-sized commitments.

7 The question of, I think -- just expanding, I
8 think, the question of could there be other ways to use
9 size to be able to get fee discounts, and your direct
10 question about in some smaller managers, that's possible.

11 One way that some folks have been able to do it,
12 in terms of getting some fee discounts, is being involved
13 in some earlier formation of a fund, to sponsor a new
14 manager that's coming out and to be a -- you know, a
15 strong partner at the beginning, one can get some
16 discounts that way.

17 So on the small fund size, it's possible that --
18 to be that. I still think that a small manager that is
19 attractive that's doing well will have a lot of capital
20 resources to be able to choose from. So that may not be
21 an effective path, but it can be higher risk to try to
22 invest in with some spin-out managers. There's
23 organizational risk there. There's other issues.

24 So in acceptance for that risk, can you
25 potentially negotiate lower fees? It's possible.

1 COMMITTEE MEMBER MATHUR: Okay. Thank you.

2 CHAIRPERSON JONES: Ms. Taylor.

3 COMMITTEE MEMBER TAYLOR: Thank you, Mr. Chair.

4 I also want to commend you on your report. I
5 thought it was an excellent report, and very detailed. I
6 think I'm also going to jump on the bandwagon here, on
7 page four of eight, where you state, "Overall we note a
8 trend of fewer proposals and fewer commitments in recent
9 years, which seems unexpected given the strong fundraising
10 environment".

11 I would love to some -- a deeper dive into that.

12 MR. HARTT: Okay.

13 COMMITTEE MEMBER TAYLOR: Okay?

14 And, Mr. Chair, I think we -- the three of us
15 have all --

16 CHAIRPERSON JONES: I think it's going to be --
17 it's going to be part of the same issue.

18 COMMITTEE MEMBER TAYLOR: I think we all
19 underlined the same thing in our book.

20 Anyway, then I had a question -- as you were --
21 you actually brought this up as you were answering Priya's
22 question, where given our size and our ability to
23 negotiate fee reductions, there are other entities
24 similarly situated that have been able to, and we have
25 not. And my question is why discount -- why have we not

1 been able to negotiate discount on fees when others have.
2 What have -- what -- what's your observation?

3 MR. HARTT: So you're saying in terms of my oral
4 comments or in the letter?

5 COMMITTEE MEMBER TAYLOR: Your answer to Priya
6 just now.

7 MR. HARTT: Maybe I misunder -- maybe I misspoke
8 or something, so --

9 COMMITTEE MEMBER TAYLOR: I may have
10 misunderstood you.

11 MR. HARTT: Right, right. So my understanding is
12 that, in general, that CalPERS has not been able to
13 negotiate fee discounts differently than other
14 largely-situated investors, not that others have been more
15 successful than CalPERS. What I observe is that there are
16 opportunities -- in terms of being with the Core 30 and
17 being a strong investor with those, there are other
18 opportunities that could be taken advantage of in terms of
19 co-investments and those sorts of things that CalPERS is
20 not pursuing now, and could that -- you know, one of those
21 objectives could be, you know, with co-investments lower
22 fees and carry on those -- on that deployment of capital.

23 So maybe in that perspective, that maybe some
24 other -- other limited partners are taking advantage of,
25 you know, those other partnership opportunities.

1 COMMITTEE MEMBER TAYLOR: Okay. And then --
2 thank you very much that clarified that. One of the
3 things about the Core 30 was that we were supposed to be
4 reducing complexity and you were stating here in your
5 report, it looks like that most of that complexity has not
6 really been done away with.

7 If you were to have a strategy going forward with
8 our internal investment team, would you be looking at
9 diversifying our management portfolio at this point, to
10 fully deploy capital, because one of your big concerns
11 here is that we are not deploying capital. We are not
12 buying into co-investments or anything right now that we
13 could have been doing. So what would your strategy be
14 going forward, if we -- working within the team?

15 MR. HARTT: So is your question in terms of the
16 staffing side or the execution side of, you know what to
17 do?

18 COMMITTEE MEMBER TAYLOR: Well, the staffing
19 side, and in relation does that impact the execution?

20 MR. HARTT: Um-hmm, right.

21 So I would encourage -- so the current pace of \$4
22 billion a year in, you know, staff plans and what we would
23 see is not going to be adequate to keep the target at
24 eight percent. It's going to slowly decline over time at
25 that pace. So in order to achieve eight percent or

1 higher, in terms of the asset allocation, would require
2 additional commitment pace.

3 So what is good -- what are good ways to do that,
4 right? Choosing good managers. Is the Core 30 the right
5 thing? Should it be expanded? That's one question.
6 Another is being able to take advantage of the other
7 partnership opportunities that are being -- being offered,
8 for instance co-investments. So that's another path as
9 well.

10 In terms of the staffing to be able to execute on
11 that, what I have seen now is that there are just a few
12 members of the team -- the underwriting team that are --
13 have experience in doing co-investments. I would think
14 that in order to do -- to do more co-investments that more
15 of the staff should be able to have experience in doing
16 that, whether that is, you know, a training and mentorship
17 program within CalPERS, whether it's going out to other
18 groups. There's lots of different ways to do that, but I
19 would think that having more experience and more
20 capabilities to execute on co-investments would be a good
21 idea, if that is a path to go down.

22 COMMITTEE MEMBER TAYLOR: Okay. Great.

23 And then my last question for you was that you
24 had mentioned on a couple of occasions that our general
25 partners are confused as to whom to speak to, because we

1 have several points of contact. Is it your opinion that
2 we should narrow that down to like having one Managing
3 Director or Investment Manager for each of our -- you
4 know, of our co-investors, or is that where the problem
5 lies, or is it because we have different -- I don't -- I'm
6 confused as to why.

7 MR. HARTT: Right. I think there's two things.
8 So the decision to separate underwriting and monitoring
9 was a decision made, you know, some years ago and with
10 some ideas of some objectives to that, and some reasons
11 why that had taken place.

12 So going into just having one point of contact
13 does away with those things. And there's certain
14 objectives that would no longer be met by going to that
15 model.

16 Does it require just having one point of contact
17 for the general partner? I think the answer to that is
18 no, so long as it's clear as to who within CalPERS to
19 speak on various topics, and that could be done.

20 The other aspect is that just having one
21 person -- you know, practically, not everybody stays in
22 the same job all the time.

23 COMMITTEE MEMBER TAYLOR: Right.

24 MR. HARTT: So people could move around and you
25 might not actually achieve your objective by just having

1 one person, because that person could change. They could
2 have different assignments. They could leave CalPERS.
3 They could go to other parts and things. They could --
4 you know, the staff made decide to reallocate people into
5 different -- a different kind of manager lists. So it may
6 not do away with entirely the issue of the communication
7 just to make it to one.

8 COMMITTEE MEMBER TAYLOR: And I just want to ask,
9 you named it as a concern. Is it a big concern that they
10 -- that general partners are voicing that they don't know
11 who to contact?

12 MR. HARTT: I have not gone and done like a
13 survey of general partners to talk about that. I picked
14 up this point mainly from discussion with staff that
15 there's, you know, some possibility that the -- you know,
16 the general partner has some confusion about, you know,
17 who it is that they should speak to about particular items
18 that they have within CalPERS.

19 COMMITTEE MEMBER TAYLOR: So staff gave you the
20 information

21 MR. HARTT: That's correct.

22 COMMITTEE MEMBER TAYLOR: And you're new, and I'm
23 relatively new here too, but -- so is there a previous
24 reporting process? Did staff have accounts before that
25 they kept to themselves? Like, I handle Blackstone, and

1 that's the partner, you know, that individually as --

2 CHAIRPERSON JONES: Mrs. Taylor, I think we may
3 be getting a little beyond in -- getting into strategy on
4 that question, so --

5 COMMITTEE MEMBER TAYLOR: Okay.

6 CHAIRPERSON JONES: -- I think we need to pull
7 back a little on that. And anything related to personnel
8 would be relative to closed session, so -- and I think --
9 you can get your questions answered, but I think --

10 COMMITTEE MEMBER TAYLOR: Sure. Okay. Thank
11 you.

12 CHAIRPERSON JONES: Yeah. Okay. Ms. Hollinger.

13 COMMITTEE MEMBER HOLLINGER: Yeah. Thank you.

14 Appreciate the report. Just a couple of things
15 when you do your review that I'd like you to mention or at
16 least look at. I have a concern that our negotiation for
17 fees may be hurting us in the marketplace. So if you
18 could speak to that as whether that's limiting our access
19 to deals or not.

20 Also, coming from the private industry, to me,
21 deals are always done relationship based. So if you
22 could -- this idea of submitting something to a portal,
23 it's like saying if you have a screenplay in Hollywood,
24 give it to a website. I just -- I'm just curious as to
25 that methodology, rather than maybe developing -- staff to

1 cultivate relationships in the marketplace. And as -- in
2 terms of culture. And also maybe the impact of not having
3 filled Réal's position, you know, not having the
4 leadership.

5 Thank you.

6 MR. HARTT: Sure. So the first question having
7 to do with the negotiating of fees, does that hurt
8 CalPERS?

9 COMMITTEE MEMBER HOLLINGER: You may not know
10 that yet.

11 MR. HARTT: Yea, I don't -- I don't have -- what
12 I -- my answer to that is I don't have an answer, but I do
13 think that there's a number of aspects in terms of the
14 information flows that CalPERS looks for. It's a broader
15 set of issues. And the kind of information, and the
16 intensity of that information, I think a movement to the
17 ILPA template is helpful, in that from the general
18 partner's perspective, they would like to just be able to
19 satisfy one information request and go along with a lot of
20 different investors.

21 And so if investors are willing to take, let's
22 say, the ILPA template for, you know, fees information,
23 that's helpful, rather than doing customized for each
24 different individual investor. So I think it's -- it has
25 more to do with -- you know, other considerations to think

1 about is not just the fees, but also in terms of
2 information flows and intensity of those sorts of
3 activities, compared to, you know, other investors out
4 there, where they may not have the same level of questions
5 and looking to deploy the capital.

6 Whether that's the right thing or wrong, I'm not
7 saying, saying that, you know, CalPERS should look to get
8 the best deal that it can be when it's looking to make an
9 investment with a particular manager. And if they are not
10 willing to take CalPERS money for those sorts of reasons,
11 then perhaps it's not the right relationship.

12 In terms of the relationship as you mentioned
13 with regards to the portal, I believe that the portal does
14 help in helping -- it's across -- it is my understanding
15 it's across all the asset classes, that all of the
16 investments come through the -- an investment portal here
17 at CalPERS.

18 And one of the reasons for that is to try to make
19 standards -- standardize the information flow, so that
20 every manager can be looked at in -- initially in a -- the
21 same sort of level of, you know, information and that
22 people can be compared on a standardized way, so that does
23 have some benefits in being able to review them relatively
24 quickly.

25 I would ask Sarah and other people on the staff

1 to comment about how they work with their investment
2 managers to encourage them to -- through their
3 relationships, to submit into the portal. So, you know,
4 I've talked to them about that about -- and they do have
5 those relationships. So when, you know, a particular
6 manager is coming to market, I know that the staff says,
7 you know, please, you know, take the time and go -- and
8 put the information through the portal as well, so that
9 they can research that. So I know that the relationship
10 is there to encourage the general partner to have that
11 happen.

12 The last one having -- about a Managing
13 Investment Director, you know, the staff has been doing a
14 good job. I've been monitoring their investments as part
15 of the review process, and I've not noted any
16 deterioration in the thoroughness of the reviews, or, you
17 know, how the staff is reviewing the opportunities. So at
18 the end of the day, it will be good to have, you know, a
19 permanent person in charge, and to be able to have
20 consistency that knowing where the program is going to go
21 going forward.

22 Obviously, having the Managing Investment
23 Director is part of that, and then the whole discussion
24 about the business model is another part of that as well.
25 So I think that the staff, as I've observed, there's no

1 diminution in their -- the quality of their work.

2 COMMITTEE MEMBER HOLLINGER: Thank you.

3 CHAIRPERSON JONES: Mr. Slaton.

4 VICE CHAIRPERSON SLATON: Thank you, Mr. Chair.

5 Although, I'm always more interested in net return after
6 fees, I do want to come back to fees for just a moment to
7 get a clarification from you.

8 On page five of eight, your sentence is a double
9 negative, so I want to make sure I understand. "Staff
10 reports that CalPERS has not received meaningful fee
11 reductions that were not available to similarly situated
12 limited partners". That means we didn't -- we weren't
13 able to get something that others did not get, is that the
14 way -- am I reading the sentence correctly?

15 MR. HARTT: Okay. So I apologize for the double
16 negative. So the meaning is that CalPERS -- there were no
17 other investors that got discounts that weren't available
18 to CalPERS.

19 VICE CHAIRPERSON SLATON: Okay. So what I'd like
20 you to comment on is, you know, the world of supply and
21 demand. I mean, if I'm a GP, and I've got access to a lot
22 of capital, and I can choose my partners, and there's more
23 capital chasing me than I need, then my inclination for
24 doing fee reduction is pretty limited. Would you agree
25 with that statement?

1 MR. HARTT: You know, all things being equal,
2 that's correct.

3 VICE CHAIRPERSON SLATON: Okay. And the market
4 today, would you agree that there's probably more capital
5 chasing than there is requirement for capital?

6 MR. HARTT: Well --

7 VICE CHAIRPERSON SLATON: If the deal is good?

8 MR. HARTT: Right, if the deal is good. So I
9 would look to, you know, a statistic of what they call dry
10 powder, which is the amount of additional capital that's
11 available in the marketplace to deploy in the private
12 market classes has continued to go.

13 I'd also say that looking back at private equity
14 over the years, there are investments being done within
15 and done by private equity managers that weren't done 10
16 years ago, 20 years ago. So the marketplace has expanded
17 as well. There's a broader range of opportunities, not
18 only in size, but different types that are done.

19 So the market has changed, so it's hard to gauge
20 kind of, you know, how much is it just -- if you just
21 looked at the dry powder and see as it peaks, does that
22 mean that there's like that much more capital than deals
23 being possible out there? It's a little hard to tell.
24 It's not quite as clear.

25 VICE CHAIRPERSON SLATON: All right. But would

1 fee -- the lack of fee concessions give you an indicator
2 that, in fact, there is enough capital out there going
3 into private equity?

4 MR. HARTT: So what I've observed on the fee's
5 side is that, in general, if you just looked at the whole
6 private equity market in average, let's say, you would see
7 that the average fees has come down. A reason for that is
8 that managers are generally raising larger pools of
9 capital, and that they recognize that the amount of fee
10 income that they need in order to run their operation is a
11 smaller percent of capital than they -- what they needed
12 previously. So the larger funds have tended to have lower
13 fees on average than say smaller funds, just all things
14 being equal.

15 So as funds have gotten larger, some of that fee
16 has come down. But that's at the top level, it's not, you
17 know, necessarily at the -- you know, doing the deal with
18 CalPERS versus, you know, other limited partners.

19 VICE CHAIRPERSON SLATON: So would that logic
20 support the reduction in managers or concentration to the
21 larger managers in order to capture that lower fee
22 universe, in other words, the 30 that we're talking about?

23 MR. HARTT: So I believe I've seen statistics
24 that that has -- that looking at the average fee that
25 CalPERS has been paying over time has shrunk down. It's

1 not in our report, but I've seen other statistics. So
2 that wouldn't be surprising to me, if it's concentrating
3 on larger managers, that the smaller, and presumably
4 higher management fee, managers are becoming a smaller
5 part of the portfolio, so that would just kind of make
6 sense.

7 But as you point out, it's a net of fees
8 business. So at the end of the day, should you be with a
9 manager that maybe charges a higher management fee if they
10 deliver higher net-of-fee returns, that may be something
11 that -- worth considering.

12 VICE CHAIRPERSON SLATON: Right.

13 MR. HARTT: Should we be doing -- should CalPERS
14 be doing more co-investments or other things that have
15 lower fee, you know, on them? Maybe that would be -- make
16 sense as well.

17 VICE CHAIRPERSON SLATON: Thank you very much.

18 CHAIRPERSON JONES: Mr. Costigan.

19 COMMITTEE MEMBER COSTIGAN: Thank you, Mr. Jones.
20 Actually, Mr. Slaton asked some of the questions, because
21 I do think in your oral statement you did speak over
22 yourself, because you made it sound as though we weren't
23 doing a good job compared to our peers. And, in fact,
24 your letter says the opposite. So I actually turned to
25 the Treasurer's office and said did you just say that? So

1 I'm glad you clarified this.

2 But sort of carrying along Mr. Slaton's line, the
3 position that you're taking is that we have a lack of
4 meaningful fee discounts. But what I've heard is while we
5 wanted to call them meaningful fee discounts, no one is,
6 in fact, getting a fee discount among our peers, is that
7 correct?

8 MR. HARTT: So it -- I don't observe that other
9 limited partners are able to negotiate, you know, on a
10 stand-alone basis a different fee for Manager A, Carlyle
11 Fund versus what CalPERS has been able to negotiate with
12 that particular fund.

13 What I do think is that some LPs are engaging in
14 their relationship with a Carlyle or others out there in
15 different ways, for instance, having a -- more of a
16 partnership or separate managed account or other sites of
17 activities that can lead to, in aggregate, a lower amount
18 of fees.

19 COMMITTEE MEMBER COSTIGAN: That's a different
20 model going forward that we may talk about. So what I'm
21 concerned about is the here and now. So in the here and
22 now with our model, and when you say, "...has not received
23 meaningful fee reductions that were not available to
24 similarly situated limit partners". So let's just talk
25 about the universe in your letter.

1 Our peers in that group are getting no discounts
2 that we're not getting as well. We're all in the same
3 field -- playing field.

4 MR. HARTT: That's my observation, yes.

5 COMMITTEE MEMBER COSTIGAN: Well, is that your
6 observation or your position, because it's in your letter?

7 MR. HARTT: I don't -- I don't have the research
8 on that. I don't -- I have not done a full review of
9 other investors in the marketplace, but --

10 COMMITTEE MEMBER COSTIGAN: Well, I guess my
11 concern is you're our consultant, and you wrote a letter
12 to us that says "lack of meaningful fee discounts". So
13 you have made an affirmative statement that we're not
14 getting meaningful discounts.

15 And yet, you also State, "...CalPERS has not
16 received meaningful fee reductions that were not available
17 to similarly situated limited partners. So you've looked
18 at some universe and you've come to a conclusion, is that
19 accurate?

20 MR. HARTT: Yes.

21 COMMITTEE MEMBER COSTIGAN: Okay. And we are no
22 worse off or no better off than our peers in this universe
23 that you've opined on?

24 MR. HARTT: If you're doing exactly the same
25 business model, yes.

1 COMMITTEE MEMBER COSTIGAN: Well, again, I'm not
2 the one who wrote the letter.

3 MR. HARTT: Right.

4 COMMITTEE MEMBER COSTIGAN: So the business model
5 we're looking at is -- you looked at the business model.

6 MR. HARTT: Right.

7 COMMITTEE MEMBER COSTIGAN: Are you saying this
8 is the wrong business model to be looking at?

9 MR. HARTT: I'm saying that if you want to
10 compare fees, there are other limited partners that are
11 deploying some other aspects of the business model that
12 allow them to get some different fee.

13 COMMITTEE MEMBER COSTIGAN: So are they similarly
14 situated to us then?

15 MR. HARTT: They're similar large investors.
16 They're doing some additional strategies to help them get
17 some -- and one of those effects is to get lower fees.

18 COMMITTEE MEMBER COSTIGAN: I guess the concern I
19 have with this a little bit is you paint it as a negative,
20 when, in fact, if, as Ms. Slaton said, there's a universe
21 out there with a large amount of capital. Are we, in
22 fact, doing the best that we can, given the circumstances,
23 because what you're trying to say is we're not doing the
24 best, and we're getting lack of meaningful -- and what it
25 may be is that what we're actually getting is what the

1 marketplace permits and allows.

2 So you've made a finding that there's a lack of
3 meaningful fee discounts as opposed to the fact that it is
4 what we are, in fact, negotiating along with people who
5 are similar -- or entities that are similarly situated to
6 us are, in fact, what the market bears.

7 MR. HARTT: Okay. All right. So I think that's
8 correct. So what this -- this point on the -- my letter
9 has to do with looking back at some of the thought process
10 around having the more concentrated manager portfolio.
11 And my understanding from that, that one of the objectives
12 is that by being more concentrated on a
13 investment-by-investment basis, that CalPERS could be in
14 the stronger position to negotiate fee discounts on that.

15 What I have understood from staff is that that
16 particular strategy has not led to additional fee
17 discounts compared to other investors that are out there.

18 COMMITTEE MEMBER COSTIGAN: Okay. Thank you.

19 Thank you, Mr. Jones.

20 CHAIRPERSON JONES: Okay. Thank you.

21 Okay. That -- I see no further questions on
22 this. And so in terms of direction rather than waiting
23 till the end, I think we'll just do it now, because three
24 Committee members asked for a deeper dive into the pacing
25 and the 30 manager concepts. So I think I saw you writing

1 down, so I think you got that one.

2 And then the second one was the formula for the
3 benchmark. So if you could provide that in writing to the
4 Committee members. And so those are the only two
5 directions I have at this time.

6 Then on this, we do have a request to speak. Mr.
7 Dan Mat --

8 CHIEF INVESTMENT OFFICER ELIOPOULOS: Mr. Jones?
9 Mr. Jones, just a clarification.

10 CHAIRPERSON JONES: Yeah.

11 CHIEF INVESTMENT OFFICER ELIOPOULOS: Just the
12 direction to do that follow-up, is that to your consultant
13 Meketa?

14 CHAIRPERSON JONES: Both of you on -- are you
15 talking about on the manager --

16 CHIEF INVESTMENT OFFICER ELIOPOULOS: Yeah.

17 CHAIRPERSON JONES: -- deeper dive? Yeah, I
18 think you have to coordinate that.

19 CHIEF INVESTMENT OFFICER ELIOPOULOS: Okay.

20 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:
21 Mr. Jones, just a clarification on the second
22 one, the arithmetic versus geometric returns, also to
23 Meketa or to staff?

24 CHAIRPERSON JONES: No, that was to staff.

25 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

1 Okay. Thank you.

2 CHAIRPERSON JONES: Okay. Thank you.

3 The request to speak Mr. Dan -- okay. He's
4 already here. Well, I'm going to let you introduce
5 yourself, because you're going to pronounce your name
6 correctly. And then you'll have three minutes. And
7 there's a time clock here that will advise you of your
8 time.

9 So go ahead.

10 MR. MATUSIEWICZ: Thank you, Mr. Chair, and
11 members of the Board. You know, I'd simply like to voice
12 my support --

13 CHAIRPERSON JONES: Your name, please.

14 MR. MATUSIEWICZ: Oh, I'm sorry. It's Dan
15 Matusiewicz. I'm with the City of Newport Beach. I'm the
16 Finance Director/Treasurer.

17 And I simply want to voice my support of the
18 Private Equity Program. It's -- this isn't going to come
19 as a surprise to you, but it's an important part of the
20 asset class, and the portfolio. And, you know, while
21 transparency and fees are important, I think there's been
22 too much emphasis on fees, especially in the press. So I
23 think we all recognize that if we bargain shop for private
24 equity, sometimes you get what you pay for.

25 And so, you know, we all recognize these are

1 professional fees, and we should value the managers.
2 I'm echoing much what some of the Board has already said.
3 We should evaluate the managers net of fees. And I
4 commend the Board for its courage on, you know, taking on
5 fees as an issue. I know in the press sometimes it's hard
6 to stand up to that.

7 But private equity is important, and I think net
8 return on investment is the appropriate approach.

9 So thank you.

10 CHAIRPERSON JONES: Thank you for your comments.

11 Okay. So before we go to the next item on the
12 agenda, which is the real assets annual program review,
13 we'll take a 10-minute break. And so we'll see you at --
14 in 10 minutes.

15 (Off record: 10:52 a.m.)

16 (Thereupon a recess was taken.)

17 (On record: 11:03 a.m.)

18 CHAIRPERSON JONES: Okay. We're at the item on
19 the agenda, Real Assets Annual Program Review.

20 Who's starting?

21 INVESTMENT DIRECTOR MOUCHAKKAA: Good morning.
22 Paul Mouchakkaa, Managing Investment Director for Real
23 Assets.

24 It's a privilege to be presenting in front of the
25 Committee this morning the annual program review for real

1 assets.

2 I'm joined by four members of the team, Beth
3 Richtman, Ed Yrure, Mike Inglett, and Jane Delfendahl.
4 But I want to emphasize that this material presented to
5 the Board was really a complete team effort. Everybody
6 within real assets participated and played a key role in
7 developing the material for the Board.

8 I think most of us have heard the famous adage of
9 the three most important things in real estate, location,
10 location, location.

11 That may be true when you talk about one single
12 asset. But when talking about a large real assets
13 portfolio, it's really about the strategic positioning
14 that portfolio. It's about the choices we have to make
15 about the types and qualities of asset that we want to own
16 for the long term. It's about the pacing of our
17 investment and it's about the level of leverage, just to
18 name a few of the key elements.

19 These components really can determine our
20 alignment of the Real Assets Program with the four
21 important cornerstones of our -- of CalPERS relating to
22 the role of real assets, Vision 2020, the Investment
23 Beliefs, and ESG implementation.

24 In fact, having a solid strategic position can
25 almost dictate how staff's time, energy, and resources get

1 utilized. Today, I'm happy to report that our strategic
2 position is stronger than it was even just a year ago, and
3 even when you compare to five or six years ago, allowing
4 for more productive use of our time, energy, and
5 resources.

6 We'll always face challenges on the investment
7 front however. And one such challenge is really the
8 market today. The market is one that is fiercely
9 competitive, particularly for high quality, cash flowing
10 real assets. That has primarily been driven by the low
11 yield environment. Adding another layer to that challenge
12 has been a growing and robust stock market, making out --
13 which has resulted in one drawback, which is that the Real
14 Assets Program is underallocated today towards its target
15 allocation.

16 Prior to today, the market could have been
17 characterized as one where really a rising tide lifts all
18 boats. And what I mean by that is that really every
19 segment and sector for the past seven or eight years has
20 experienced increase in value.

21 That is really shifted in the last 12 months.
22 There has been much greater differentiation between
23 segments in terms of valuation adjustments, some going up,
24 some actually beginning to go down. Thus, we believe it
25 has shifted to being more of a stock pickers market within

1 real assets today, which makes location and quality of
2 even greater importance.

3 Location and quality will be key components in
4 determining top-line revenue growth and bottom-line
5 profitability, which will be the key parts to drive
6 performance going forward.

7 Within real assets, we have maintained vintage
8 year management, or discipline, if you will, and not
9 chased deployment to go after a very hot equity market
10 today. As a long-term investor, Belief number 2, we
11 believe it is our responsibility and duty to do so, and
12 the benefit will come through in the long run.

13 Further, we believe that chasing deployment will
14 come at a cost of impairing alignment to the four things I
15 itemized earlier, ESG implementation, role of real assets,
16 Vision 2020, and our own Investment Beliefs.

17 We have made significant progress in the past
18 fiscal year, which the team will take us through. Jane
19 Delfendahl will go next, and she will discuss our
20 performance over the past year and the longer term. As
21 well, she will cover our report card, which was presented
22 last year where we compare how we're doing with respect to
23 our role of real assets.

24 Second, Mike Inglett will go, and he will discuss
25 our strategic positioning of our portfolio. Third, Ed

1 in role since the strategic plan of 2011 entails a greater
2 emphasis on core and income-producing holdings.

3 Further, the real assets performance for the one,
4 three, and five years exceeded the 2013 ALM expected
5 return of seven percent as referenced in the box in slide
6 2.

7 --o0o--

8 INVESTMENT DIRECTOR DELFENDAHL: Moving to page
9 three of the report, this is our report card with respect
10 to our role. It shows how the real assets portfolio is
11 increasingly meeting our role of real assets, which
12 entails three pillars. These are stable cash yield,
13 partial inflation protection, and diversification of
14 equity risk.

15 The improvement of alignment with our role is
16 evidenced by our shift to core exposure shown by the
17 tripling of our core assets to approximately 27 billion
18 today from nine billion five years ago.

19 We also have moved from having a negative income
20 to throwing off more stable positive income in a falling
21 yield environment. The hard work that has been put in
22 place since the end of the GFC has had a cumulative
23 effecting bringing us to the position we're in today.

24 Now, I'll pass it off to Mike Inglett who will
25 discuss portfolio positioning of the real assets

1 portfolio.

2 --o0o--

3 INVESTMENT DIRECTOR INGLETT: Thank you, Jane,
4 and good morning, members of the Board. My name is Mike
5 Inglett. I'm an Investment Director in the Real Assets
6 Unit.

7 I will discuss with you the real asset portfolio
8 positions on slide 4 of the program review. As you are
9 aware, private investments in real assets are illiquid in
10 nature and are typically evaluated over long periods of
11 time. This year, and over the past five years, we have
12 made significant progress in repositioning the portfolio.

13 All the moves which we have made as a team, under
14 the guidance of the 2011 and 2016 strategic plans are to
15 move towards a higher quality, and lower complexity
16 portfolio. The higher quality is evident in the increased
17 core exposure and improved occupancy levels. The lower
18 complexity is evident in the reduction of leverage and the
19 fewer number of managers, which has resulted in reduced
20 fees.

21 As shown in the table, the real assets portfolio
22 increased by approximately \$4.5 billion for the year to
23 36.3 billion. The primary drivers in the increase from --
24 were from net acquisition of assets, and appreciation in
25 the portfolio. Real estate represented a \$3.2 billion

1 increase, and infrastructure represented a \$1.2 billion
2 increase.

3 As Paul mention, the growth was accomplished in a
4 very competitive market, and a vast majority of the growth
5 was in the core risk classification. It should be noted
6 that over the past five years, the core portfolio has
7 increased in terms of percentage from 39 percent to 75
8 percent. The significant shift has taken place through a
9 combination of methodically purchasing primarily core
10 assets, and selling non-strategic assets.

11 As a reminder, in fiscal year 15-16, real estate
12 sold approximately \$3 billion of non-core assets in a
13 commingled fund secondary sale. In addition to the higher
14 quality assets, stability of the assets has also
15 increased, as evidence of the higher occupancy in our real
16 estate portfolio. As of the end of the fiscal year, 85
17 percent of our real estate portfolio is in stabilized
18 assets.

19 Shifting gears to lower complexity. First, we
20 have reduced the loan-to-value to approximately 33 percent
21 primarily through the paydown of approximately one billion
22 of debt during the past fiscal career. Also, real assets
23 has successfully made strides to lower the leverage over
24 the past five years, as the LTV has reduced from
25 approximately 40 percent in 2012 to 33 percent today. As

1 we have learned from the past, higher leverage can lead to
2 higher volatility.

3 Second, one of the goals of Vision 2020 is to
4 reduce complexity by lowering the number of external
5 investment managers. In the past two years, real assets
6 has significantly reduced the number of managers from 58
7 in 2015 to 30 in 2017. This allows for improved oversight
8 from staff and more strategic relationships with our
9 partners.

10 In closing, the result is that all of these
11 elements that were mentioned have contributed to building
12 a stronger portfolio position for real assets.

13 I'm now going to pass it over to Ed Yrure and
14 Beth Richtman who will discuss real assets fiscal year
15 16-17 accomplishments and fiscal year 17-18 initiatives.

16 Thanks.

17 --o0o--

18 INVESTMENT DIRECTOR YRURE: Thank you, Mike.
19 Good morning, members of the Board. Ed Yrure, Investment
20 Director, Real Assets.

21 We came to you in 2016 and the Board approved our
22 five-year strategic plan that focused on three primary
23 objectives. One, integrating real estate, infrastructure,
24 and forestland together under one role and one
25 organization. Two, emphasize investing in core

1 income-producing assets to align with our role. And
2 three, reaffirm our preferred business model utilizing
3 separate accounts.

4 In addition, our plan focused on reorganizing our
5 portfolio into six segments and called for technology
6 improvements to align with these goals. My discussion
7 points today center around past year accomplishments and
8 current year initiatives in the areas of strategic plan
9 implementation, alignment and governance, and further how
10 market dynamics have influenced new initiatives. These
11 are covered on slides five and six in the presentation
12 before you.

13 With regard to organization and governance
14 accomplishments, I highlight two particular achievements:
15 Technology improvements and segment plan development.

16 First, technology improvements to our AREIS
17 database were completed, conforming to portfolio hierarchy
18 structure around segments and expanded sector
19 classifications. These modifications provide the team
20 greater reporting capability further enhancing
21 transparency and measuring performance across our
22 portfolio.

23 Second, staff launches segment planning process,
24 further harmonizing real assets integration. Our
25 strategic plan called for designing our program into six

1 segments: Residential, commercial, essential, consumer,
2 specialized, and international.

3 To date, the team has completed two such goals --
4 two such plans. It's residential and it's international.
5 Our goal this fiscal year is to complete at least two
6 additional plans.

7 Shifting gears to alignment and cost. Our
8 preferred business model is to partner with external
9 managers. And given the illiquid nature of our asset
10 class, governance, alignment, and costs are critically
11 important. We highlighted in our annual program review
12 last year that we had initiated the restructure of our
13 incentive fee model in real estate.

14 The team is pleased to report that staff
15 successfully implemented this new fee model with its core
16 key real estate strategic managers. It's benefits include
17 reduced complexity, cost efficiency with greater fee
18 transparency. This points to -- points directly to
19 Investment belief number 8, costs matter.

20 Moving to key initiatives, Paul touched earlier
21 on our ongoing effort to assess market risk, and the
22 potential impact external factors may cause on our
23 portfolio. The retail sector has received much press
24 lately of potential headwinds caused, for example, by
25 eCommerce, and shifts in consumer behavior.

1 We are very -- we are extremely mindful of these
2 dynamics, and accordingly have embarked on a study of our
3 retailed portfolio. The team engaged an industry expert
4 to assist staff in evaluating the strategy and the
5 relative position of our retail holdings.

6 Back to organization and governance. Real assets
7 form an Investment Management Subcommittee that serves as
8 a deliberative body to the Real Assets Investment
9 Committee. This added layer of investment review enhances
10 our governance process by enriching communication across
11 the real assets team and increasing the diversity of views
12 by including all subject matter experts. This speaks to
13 Investment Belief number 10, deep resources strong
14 processes.

15 --o0o--

16 INVESTMENT DIRECTOR YRURE: These initiatives
17 remain a work-in-progress. And like other current year
18 initiatives, we will bring forward in next year's annual
19 program review our accomplishments over the balance of
20 this fiscal year.

21 At this time, I will turn it over to Beth
22 Richtman to summarize accomplishments and initiatives
23 around the Emerging Manager Program and ESG integration.

24 Thank you.

25 INVESTMENT MANAGER RICHTMAN: Thank you, Ed.

1 Beth Richtman real assets Investment Manager.

2 Good morning. I will be reporting to you on the
3 Emerging Manager Program, and also a few of the highlights
4 of our ESG integration efforts for this past year. First,
5 I'd like to give you an update on the Emerging Manager
6 Program.

7 We are in the fifth year of this program. It's
8 been performing well. As of June 30th, the program's net
9 asset value is \$300 million, with five managers across
10 four property types and all in California.

11 The Emerging Manager Program is about creating an
12 ecosystem of managers, with the possibility of
13 transitioning them to establish managers with CalPERS or
14 more broadly.

15 Now, turning to ESG integration. We made some
16 significant strides in weaving ESG considerations further
17 into our investment processes across real assets this
18 career. It's been a team effort. The three highlights I
19 will cover are, first, our newest ESG underwriting tool;
20 second, the expanded use of a sustainability measurement
21 and benchmarking tool across our portfolio; and third, how
22 we're working to pursue economically attractive
23 opportunities to improve the energy use within our real
24 estate portfolio.

25 First, let's talk about underwriting new

1 investments. Consistent with the real assets strategic
2 plan, this past fiscal year, staff developed an ESG
3 consideration matrix for underwriting real estate assets.
4 We launched the real estate version of the matrix
5 effective July 1st, 2017.

6 Now, every asset that joins the real assets
7 portfolio, through a separate account or through a direct
8 purchase, will have gone through a formal and systematic
9 ESG consideration review covering such ESG factors as
10 climate risk, safety, labor and community relations among
11 others.

12 Second, I'd like to give you an update on our
13 progress in rolling out a benchmarking tool across our
14 portfolio. In the prior fiscal year, we started using
15 this tool for infrastructure. This past year, we expanded
16 to include all our core real estate managers as well.

17 The GRESB survey, as it's known, was utilized by
18 \$3.7 trillion worth of real estate companies and assets
19 this past year, including our own.

20 We recently got the results covering the year
21 2016. And staff is in the process of reviewing the
22 findings. We intend to use these results to understand
23 what our managers are doing and not doing, relative to
24 their peers and to each other, and to get ideas for
25 opportunities about what we should be engaging our

1 managers about.

2 Lastly, I'd like to update you on our energy
3 optimization initiative. As part of the first phase of
4 this initiative, we met with our managers and several
5 industry experts. Then staff developed a new
6 energy-related component of our annual investment process.

7 Starting this past year, when our managers came
8 to CalPERS, with CapEx requests related to renovations
9 they wanted to do on their existing portfolios. We asked
10 them to tell us how they considered opportunities to
11 reduce or better serve the building's energy load as part
12 of their renovation plans.

13 Managers were also encouraged to submit ideas for
14 pilot energy optimization projects for their portfolios.

15 I'm pleased to say that 20 economically
16 attractive projects were submitted by our managers for
17 energy optimization, pilots, and renovations. Combined,
18 those projects are projected to save 9.8 million kilowatts
19 hours of energy per year, and generate approximately \$15
20 million of net present value.

21 These new energy optimization components will
22 continue to be included in our annual investment process.
23 But this is just the beginning. For the next phase of the
24 energy optimization initiative, we recently hired a
25 consultant to help us assess strategic options for how to

1 effectively expand this initiative across the real estate
2 portfolio.

3 In summary, this year, we made strides on
4 identifying ESG issues and opportunities before and after
5 assets join our portfolio, and also on taking action on
6 opportunities that present positive economic and
7 environmental outcomes.

8 Now, back to Paul Mouchakkaa for closing
9 thoughts.

10 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Thank
11 you, Beth.

12 We hope that this presentation has helped
13 illuminate for the Investment Committee the strategic
14 positioning of the real assets portfolio. Further, we
15 hope that it has provided an ability for all of you to
16 gauge the success or failure of this program with respect
17 to the important components around Beliefs, ESG
18 implementation, role of real assets.

19 As I touched upon earlier, the market has shifted
20 to one where certain segments are experiencing price
21 adjustments -- downward price adjustments. We cannot
22 predict the exact timing of the next downturn. All we can
23 do is prepare ourselves for it.

24 In a private asset class such as real estate or
25 real assets, that preparation does not take months, but

1 takes years, especially for one of our size and scale.
2 The three things that we focus on to really determine how
3 prepared we are, are first having greater control or
4 governance, second, less volatility and complexity, and
5 third, higher quality more income -- income -- durable
6 income holdings.

7 Regarding greater control on governance, in 2008,
8 we had 60 percent of our portfolio in separate accounts.
9 Today, we have 90 percent of our holdings either in
10 separate accounts or operating company.

11 Regarding lower volatility and complexity, in
12 2008, we had over 70 manager relationships with an LTV of
13 nearly 60 percent. Today, we have 30 managers
14 relationships with an LTV of 33 percent.

15 Last, regarding quality. In 2008, we had
16 approximately 47 percent of our portfolio in durable
17 income high quality holdings. Today, we have nearly 75
18 percent of our holdings.

19 Strengthening our position to better withstand
20 the turbulence of the market continues to be a focus for
21 us. With that, we're happy to take questions and have a
22 discussion with the Investment Committee.

23 CHAIRPERSON JONES: Okay. Yes. Thank you for
24 the presentation. And we do have several questions.

25 Ms. Mathur.

1 COMMITTEE MEMBER MATHUR: Thank you, Mr. Chair.
2 Thank you for this review. I -- my question goes to the
3 integration of the three subcomponents of the real assets,
4 forestland, the infrastructure, and the real estate. And
5 if you have any -- first of all, do you have any
6 preliminary reflections on how that's working, where you
7 see it being effective in accomplishing the goals that you
8 had in the -- at the outset, and moving that direction,
9 and where you think there might be lessons learned? I
10 know it's early, but things that you're learning that you
11 might want to refine that.

12 And then secondly, maybe a little bit more -- if
13 you can go a little bit more specifically into how it is
14 impacting the strategy and infrastructure and how
15 infrastructure is being deploy -- or how our assets are
16 being deployed in infrastructure.

17 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: No
18 problem. I would say overall, it took a lot of thought.
19 And really the methodology in which we went down to
20 integrate these three groups was really through the
21 development of these segments. And the segments didn't
22 just, you know, come out of the ground or out of someone's
23 head one day, it took -- it really was through our
24 strategic plan work, where we had several roundtables, met
25 with experts across the globe, and really thought through

1 what would it take to bring this together.

2 I think some of the big reflections on the
3 positive side have been more staff communication as to
4 what the right hand is doing versus the left hand, if that
5 makes any sense.

6 Additionally, it has improved our decision
7 making. We ask ourselves the question, well, could we
8 accomplish or could we acquire this asset perhaps in
9 infrastructure or through real estate, and maybe get the
10 same return with greater governance, or with less risk, or
11 volatility? So it has improved that compare and contrast
12 element.

13 Undoubtedly, you know, being only about a year
14 and a half into this full integration, there will be a
15 need to refine things. Infrastructure is not the same as
16 real estate and nor is forestland. There are certain
17 specifications and elements that are quite different. We
18 have -- we try to manage those very carefully. And both
19 in the new investments team and in the portfolio
20 management team, they are organized by the segments
21 themselves. And certain segments tend to have a little
22 more emphasis on perhaps one of the programs than the
23 other.

24 So take, for example, the essential segment has
25 forestland and power and energy in it and renewables.

1 That is really clearly in the forestland and
2 infrastructure component. Our consumer segment is really
3 primarily retail and hotels. We don't own a lot of hotels
4 in our portfolio.

5 But retail and hotels are obviously much more
6 geared to real estate. The staff is organized and
7 provides sector- or segment-level expertise. So we try to
8 find that balance where it isn't just, you know, spreading
9 the peanut butter across the entire piece of bread, but
10 trying to understand that there are some areas where we
11 will need to really dig in and think about.

12 COMMITTEE MEMBER MATHUR: Okay. Thank you.

13 CHAIRPERSON JONES: Okay. Mr. Lind.

14 COMMITTEE MEMBER LIND: Thank you.

15 I have two questions. One sort of big picture,
16 one more specific. So your opening remarks you talked
17 about our discipline and not chasing capital deployment in
18 a hot market. And then your closing remarks talked more
19 about, you know, there's some signs that certain sectors
20 are starting to see a downward trend. And more
21 importantly, you discussed what we have done in our asset
22 class to help us weather the inevitable storm that will
23 come, hopefully nothing near what happened during the
24 Great Recession.

25 But my question goes to so how are we positioned

1 to take advantage of the inevitable storm that comes, you
2 know, when there are good values out there that we can
3 maybe deploy capital? That's my first question.

4 The second question unrelated, but in the report,
5 there were some sort of optimistic descriptors about our
6 perennial loser forestland. Are any of our -- are any of
7 us on the Board likely to see a positive number there
8 before we -- our tenure ends here?

9 (Laughter.)

10 COMMITTEE MEMBER LIND: You're not for sure.

11 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Thank
12 you. Well, let's say this, it really boils down to what -
13 on your first question, excuse me - how to take advantage.
14 That really, as I said, comes down to that strategic
15 positioning. If you are in a position of weakness, then
16 you will be impaired to take any advantage of what might
17 be dislocation in the market.

18 The one difference, however, is this is a private
19 asset class, which means you have to have a willing
20 seller. It's no different than your car or your home, you
21 have to sell your house, or the house, or property has to
22 be repossessed, in essence.

23 It isn't the same as a publicly traded market,
24 where values adjust and they're liquid, and you can go in
25 and out of the market. So you first have to do the

1 preparation so that you're healthy enough to take
2 advantage when it does come. But even if you are, it does
3 require the ability to act.

4 And I would say if there are willing buyers in
5 that -- or, excuse me, willing sellers in that downturn,
6 then we are very cognizant that we want to position
7 ourselves to take advantage of it should the storm come
8 in.

9 With respect to forestland, it is still -- it has
10 been a challenged asset from a performance perspective. A
11 lot of it has to do with the concentration of the
12 portfolio in one type of timber, and in one -- primarily
13 one location. And the team continues to review that and
14 work to restructure and have a positive path forward for
15 forestland.

16 CHAIRPERSON JONES: Okay. Ms. Taylor.

17 COMMITTEE MEMBER TAYLOR: Yes. Thank you.

18 I want to congratulate you, Paul, on a really
19 good report, and very detailed. It sounds like your team
20 is working really well together. I -- just one question,
21 and I think you kind of answered it. You had started off
22 with talking about the market challenge, and that
23 we -- you know, we're maintaining restraint, and that we
24 aren't chasing deployment -- you know, chasing deployment
25 for high -- you know, high cost or anything like that.

1 But then you talked about at the end the downward
2 price adjustment that you're seeing. Is that going to
3 give us a better opportunity for deployment of capital?

4 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: First,
5 thank you. And, yes, I do believe our team is working
6 very well together.

7 The downward adjustments that you're starting to
8 see are really in, as I said, in really specific segments
9 or sectors. We haven't seen it really cause any mass
10 exits or people wanting to get out. I'll use one obvious
11 example, which is lower quality malls - Class B, Class C
12 malls - have clearly experienced some valuation
13 adjustments, and have not only experienced that, they've
14 experienced some operational challenges as well.

15 Where we have not seen as much downward price
16 adjustment is really in the areas that we are primarily
17 focused on.

18 COMMITTEE MEMBER TAYLOR: Okay.

19 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: In
20 those areas it hasn't really cracked yet. But what was
21 happening prior to, let's say, 18 months ago, was really
22 almost everything. I don't want to say everything. But
23 almost everything in the real assets bucket was really
24 experiencing increases in value. And now, you're seeing
25 luxury residential as an example, and lower quality retail

1 experiencing some real challenges.

2 COMMITTEE MEMBER TAYLOR: Okay. So --

3 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: But it
4 is not in the area that we're --

5 COMMITTEE MEMBER TAYLOR: Right, because we're --

6 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA:

7 -- those are -- we're not as focused on.

8 COMMITTEE MEMBER TAYLOR: We're in -- we're
9 making sure that we're much more strategic about the
10 investments and --

11 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA:

12 Correct.

13 COMMITTEE MEMBER TAYLOR: -- high quality. I got
14 you.

15 So my question then is the crack in the lower end
16 malls and the higher end residential, is it -- and the
17 reason I'm asking this is because it sounds familiar to me
18 during the crash wasn't that sort of where it hit first,
19 when we were talking real estate?

20 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: I
21 think, you know, as I remember it -- I think everyone has
22 a different memory of it.

23 COMMITTEE MEMBER TAYLOR: I know.

24 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: For me,
25 it really started with the -- in late 2007, when credit

1 spreads really started to gap out. Curtis will probably
2 correct my English. And then after that, really what
3 happened within real estate was it almost was just about
4 everything.

5 COMMITTEE MEMBER TAYLOR: All at once. Okay.

6 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: But
7 maybe not all at once, but pretty -- pretty close to all
8 at once. But just about everything experienced such a
9 significant hit.

10 Now, housing was clearly the one -- was really
11 the eye -- I don't know the eye of the storm or really the
12 center of the issue for real estate. If you were to take,
13 you know, the whole real assets bucket. And that would
14 probably be the one that experienced the most and the
15 earliest signs of problems.

16 COMMITTEE MEMBER TAYLOR: So again, thank you. I
17 just want to thank you again. It looks like you've really
18 worked to make our investments in real assets very
19 sustainable for any kind of possible downturn that we're
20 looking at, if there were. And again, congratulations on
21 how well your team is working.

22 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Thank
23 you.

24 CHAIRPERSON JONES: Mr. Jelincic.

25 COMMITTEE MEMBER JELINCIC: Looking at slide 2,

1 your returns, I'm going to make a prediction. And that is
2 that after I get off the Board the 10-year return will go
3 up.

4 (Laughter.)

5 COMMITTEE MEMBER JELINCIC: But I think that
6 has --

7 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: How the
8 calendar works.

9 COMMITTEE MEMBER JELINCIC: I think that has more
10 to do with the roll-off of '07 and '08, than it will with
11 my tenure on the Board.

12 One of the issues that I've raised numerous times
13 is take out of funds, you know, that are reaching their
14 life, have infrastructure that they want to get rid of.
15 Have we -- if we have taken advantage of that, I have not
16 noticed it. So my question is have we taken advantage of
17 it, and if not, why not?

18 COMMITTEE MEMBER JELINCIC: Well, we have. You
19 know, the Indiana toll road was an example of one where a
20 fund brought us in actually into the deal as a partial
21 owner. Further, we have had several of our renewable
22 assets in our pipeline, and now we didn't win -- there
23 were two of them. We didn't win the bids, but we were
24 very -- we were at the table, but there were two, one
25 solar one wind, portfolio that was a private equity fund

1 manager that developed them, and was exiting the deal.
2 And we were -- we were at the table. We didn't win them.

3 But it is an area where we focus, but we really
4 focus on those opportunities that fit, you know, what
5 we're trying to do, which is primarily in those more cash
6 or income-generating assets.

7 So the real suite spot is less of the ones that
8 have maybe owned the assets or operated them, but really
9 ones where they're doing some development, and then they
10 want to get out of the asset.

11 COMMITTEE MEMBER JELINCIC: And have we looked at
12 international exits?

13 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Yes, we
14 have. On the transportation side, and on the energy side,
15 we have looked at those.

16 COMMITTEE MEMBER JELINCIC: Okay. And Beth, you
17 made a reference to direct purchases. Can -- and I have
18 only advocating bringing more real estate in-house since
19 '86, so I'm kind of a newcomer at it, but what do you mean
20 by direct purchases?

21 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: So as a
22 an example, we have participated in certain assets where a
23 manager is maybe halving offer or selling a portion,
24 one -- the example I just gave on the toll road is one,
25 where that was truly a direct purchase. CalPERS staff

1 underwrote it, and we own a portion of that asset. It is,
2 in essence, still managed by that manager, but we are
3 riding alongside.

4 And in that particular instance, you know, a lot
5 of things had to come together. First, the asset needed
6 to be available. And second the manager had a desire to
7 not own as much of that asset. They wanted to manage
8 their exposure.

9 So a few things have to happen, but that would be
10 an example of a direct purchase in our infrastructure
11 portfolio.

12 COMMITTEE MEMBER JELINCIC: Okay. And then on
13 slide 17, you talk about 11 percent of the portfolio being
14 an operating company. I assume that's CenterPoint.

15 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA:
16 Correct.

17 COMMITTEE MEMBER JELINCIC: And one of the issues
18 that came up, oh, about a year ago, was some questions
19 about CenterPoint and its political contributions. Do we
20 have any influence over their political contributions?
21 And being a developer, quite frankly, it's not shocking
22 that they make political contributions.

23 CHIEF INVESTMENT OFFICER ELIOPOULOS: Yeah, I
24 don't -- I don't remember the reference, but certainly
25 individuals we don't have any influence over their

1 political contributions.

2 COMMITTEE MEMBER JELINCIC: And the company
3 itself is not making any?

4 CHIEF INVESTMENT OFFICER ELIOPOULOS: I don't
5 believe, but that's a follow-up questions.

6 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: We can
7 follow up on that.

8 COMMITTEE MEMBER JELINCIC: Okay. On slide 20,
9 351 of the iPad, you talk about apartments experiencing
10 oversupply in select MSAs, but on the bottom you talk
11 about below historical average vacancies in apartments.
12 Can you help me understand where the MSAs that are
13 trouble?

14 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: I can
15 answer that. So I'll give you the a more fulsome picture.
16 You know, really after the global financial crisis home
17 ownership was almost 70 percent, and has declined to the
18 63, 64 type percent, which is -- every percent is roughly
19 a little more than one and a quarter million people.

20 That resulted in a really very robust and strong
21 apartment market. And whenever a market like that or a
22 segment is so strong developers get the joke pretty fast,
23 and they start building.

24 And what was taking place was a rapid amount of
25 building of apartment stock really from 2012 all the way

1 till today. And actually this year is the highest supply
2 on record that's still being delivered to the market.

3 However, the vacancies have been driven down over
4 that period of time as, you know, there's been this shift
5 in the homeownership rate. And the population is still
6 growing, but slower rate, but it's still growing.

7 And because of that, the vacancies have fallen
8 below their historical average, even though supply is way
9 above its own historical average. So although vacancies
10 have ticked up, they're still below where if you look over
11 a long period of time.

12 Now, some MSAs have experienced some
13 overbuilding. Washington D.C. is one, and Houston is
14 another. But a lot of that overbuilding was kind of what
15 I mentioned before. Developers trying to feed the
16 pipeline but the macro-environment in those two particular
17 cities is not as strong as it was, you know, five or
18 six -- probably six years ago now when D.C. was actually
19 doing quite strong and so was Houston. The tide has more
20 or less shifted in those two areas, government and energy.

21 COMMITTEE MEMBER JELINCIC: And on slide 24, you
22 talk about the unfunded commitment, \$7 billion, 6.8 of
23 which is revocable. Can you just described that, because
24 that's obviously a little different than private equity?

25 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Yes.

1 So in our separate account model for real assets,
2 infrastructure, and real estate, we make annual
3 commitments to our partners. Those commitments expire in
4 those separate accounts in one year.

5 Further, we have the right to revoke the
6 commitments. So if we commit \$400 million to manager X
7 for this fiscal year, if the market has changed or our
8 view on that particular segment has changed, we can revoke
9 that commitment and it no longer is a contingent liability
10 of the System.

11 COMMITTEE MEMBER JELINCIC: Okay. And then on
12 slide 44, the real estate investment process, you talk
13 about the real estate asset -- Real Estate Assets
14 Investment Committee.

15 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Pardon
16 me, I didn't hear you? I'm sorry.

17 COMMITTEE MEMBER JELINCIC: On slide 44, the
18 investment process, you talk about the real estate asset
19 Investment Committee. But one of the notes there is that
20 the Board consultants attend all meetings. What is their
21 role in that meeting?

22 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: So
23 their role is first and foremost to collaborate with us
24 and have open communication, so they know what it is we're
25 either reviewing for a decision or it's just purely

1 information.

2 We may be talking about a certain segment, just
3 research or what's going on within our portfolio, so that
4 they have the ability to hear that, and hear the
5 discussion that our staff is having.

6 Further, they're allowed to comment on the
7 process and provide their own point of view on if it's an
8 action item, whether or not it conforms with our policy,
9 whether it conforms with delegated authority, or it's
10 really in line with our strategic plan.

11 COMMITTEE MEMBER JELINCIC: And do they comment
12 on whether the investment itself makes sense?

13 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: For the
14 most part they will. If they -- I mean, I'll say it this
15 way, if they believe the -- and they can speak -- you can
16 ask them. But from my experience of listening to them if
17 they believe the asset or investment or commitment does
18 not make sense. I don't think they'll be shy to say, I
19 don't think this makes sense.

20 But can you ask them. But you can ask them.

21 COMMITTEE MEMBER JELINCIC: Okay. On 46
22 staffing, I did notice that nobody left CalPERS from the
23 real asset.

24 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: People
25 did.

1 COMMITTEE MEMBER JELINCIC: How many, because
2 they're not showing up here?

3 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: I'm
4 going from my memory here, but three individuals retired.
5 So we -- you know, that's a great -- great news for them.
6 And one portfolio manager departed CalPERS --

7 COMMITTEE MEMBER JELINCIC: Okay

8 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: -- for
9 another opportunity.

10 COMMITTEE MEMBER JELINCIC: Well, I won't be
11 around when you do this again, but you may want to point
12 out that, you know, there were departures. We had the
13 same issue over in private equity.

14 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: It's a
15 good comment. Thank you.

16 COMMITTEE MEMBER JELINCIC: On 49, which is the
17 transition -- Emerging and Transition Manager Program,
18 this is largely Canyon as I understand it.

19 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA:
20 Correct.

21 COMMITTEE MEMBER JELINCIC: And that really was
22 very California centric. The -- based on the press
23 release, apparently we have moved away from that
24 California centrality.

25 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: (Shake

1 head.)

2 COMMITTEE MEMBER JELINCIC: And you're shaking
3 your head, so we haven't.

4 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: No.
5 We've expanded. We've taken -- we haven't moved away.
6 We've just allowed them to enter three new markets and put
7 a cap. So it still will be very heavily focused to
8 California, but we felt expanding in a very methodical
9 and, I'll say it, slow way, having -- going five years
10 into the program, it made sense to sort of, you know, draw
11 the lines a little bit further out, but not much further
12 out. But it is still primarily focused in California.

13 COMMITTEE MEMBER JELINCIC: Okay. And I'm not
14 disputing the wisdom of that, but since it was created as
15 a California-centric program, I think there probably was a
16 role for the Board in making the decision to expand.

17 And you said that you're discussing expanding and
18 broadening. I assume that's just temporal. You had to
19 write it at some point, and --

20 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: That's
21 correct.

22 COMMITTEE MEMBER JELINCIC: Okay. And I had one
23 other one. On slide 52, 383, the internal management fees
24 and profit sharing, I assume that's just staff costs?

25 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA:

1 Internal management?

2 COMMITTEE MEMBER JELINCIC: Yeah.

3 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Yes,
4 that's the staff cost.

5 COMMITTEE MEMBER JELINCIC: And how do we get a
6 negative staff cost?

7 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: I
8 believe that was the retirement of one individual who used
9 to fall into -- from an accounting perspective, or
10 reporting, was in the infrastructure forestland P&L, or --
11 and that person's retirement, there was money that was
12 budgeted for that, and I believe that was the reason.

13 I just say this as well, when we -- when we
14 integrated the three groups, there was a little bit of
15 this accounting machinations that had to happen. But I
16 believe it's just a reverse -- reversal of an accrual.

17 COMMITTEE MEMBER JELINCIC: But as I look at the
18 report as it's presented, the entire real assets staff
19 made nothing.

20 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Made
21 nothing? This is infrastructure and forestland. If you
22 go to --

23 COMMITTEE MEMBER JELINCIC: Oh, okay. That --

24

25 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA:

1 -- page -- I don't know the page. Fifty -- fifty
2 it has that.

3 COMMITTEE MEMBER JELINCIC: That explains it. I
4 misread it.

5 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: No
6 problem.

7 COMMITTEE MEMBER JELINCIC: Thank you.

8 CHAIRPERSON JONES: Mr. Slaton.

9 VICE CHAIRPERSON SLATON: Thank you, Mr. Chair.

10 First of all, I want to thank you for the report,
11 and thank you for the organization of the report, and the
12 various categories. It made a very logical sense in how
13 you progress. So it's efficient and valuable for us to
14 hear it in that manner.

15 I have one just small technical question, and
16 then a comment and suggestion. So on page five, I
17 understand, and I'm very pleased to see the reduction in
18 LTV through the portfolio, and that's good, particularly
19 as we -- we're coming into this phase of the market.

20 You mentioned in portfolio repositioning
21 "improved fixed floating debt ratio". So where were you
22 and where are you now in that ratio?

23 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: We were
24 roughly -- and I'll talk to real estate. We were
25 approximately, I want to say -- I'm looking at Mike, but

1 approximately 90/10 before. And today, we're probably
2 99/1 or 98/2 today.

3 VICE CHAIRPERSON SLATON: Okay. So more --

4 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: More
5 fixed versus --

6 VICE CHAIRPERSON SLATON: We've eliminated the
7 interest rate risk.

8 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Yes,
9 correct.

10 VICE CHAIRPERSON SLATON: Okay. All right.

11 And secondly, I've mentioned this to you before,
12 so I hate to sound like a broken record. I mentioned to
13 you infrastructure. I'm very pleased with your energy
14 optimization program on the real estate, particularly in
15 the office building area. And I just encourage you to
16 contact the CalPERS members who are about five miles away
17 from here called SMUD, and they do have the Savings By
18 Design program. And have you -- have you worked with them
19 or what's the status?

20 INVESTMENT MANAGER RICHTMAN: Thank you, Mr.
21 Slaton for your recommendation last year as well on that.
22 And we actually did follow up and we had a meeting.

23 VICE CHAIRPERSON SLATON: Okay.

24 INVESTMENT MANAGER RICHTMAN: And it was very
25 helpful. And we did meet with several industry experts

1 for the first phase. And as we're going forward, we
2 definitely think SMUD is doing some very interesting work.
3 And it's exciting to have them so close by, and it might
4 be useful to continue our relationship with them in
5 subsequent phases.

6 VICE CHAIRPERSON SLATON: I think it's important
7 because the technologies continue to develop, the science
8 continues to develop. And in terms of energy use, you
9 know, building energy is a huge part of our energy sector.
10 And this is right -- goes right to the bottom line on
11 these numbers. So thank you for doing that and encourage
12 you to continue.

13 INVESTMENT MANAGER RICHTMAN: Thank you.

14 CHAIRPERSON JONES: Okay. Thank you.

15 Yeah, I have a couple of questions. The first
16 one is about the forestland. We've been advised for some
17 time now as you responded to Mr. Lind about looking at a
18 plan going forward. I think we need to give some priority
19 to that, because we have an asset class that we say that
20 it's not scalable to get the returns we need. And so I
21 would suggest that we have some kind of target date, in
22 terms of coming back, in terms of what your plans are
23 regarding forestland.

24 And obviously, it's one of the lowest performing
25 asset classes we have. And related to that, I would

1 suggest that on the expenses for infrastructure and
2 forestland be disaggregated, because I can see the
3 performance for infrastructure separate from our
4 forestland, but when I looked at the expenses, they're
5 commingled and I can't identify. So that's one point.

6 The other is on page 50, or 381 of the iPad, and
7 we had over a \$200 million reduction in expenses for real
8 assets. And I looked and I saw the big -- the major
9 change is profit sharing accrued. Could you explain what
10 happened there to be the significant part of this
11 reduction?

12 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Yes.
13 You know, the accrual was reduced primarily because we
14 paid out. Many of the incentive fees were due to some of
15 our partners. And so paying them out at their time
16 essentially reduced that -- the amount that is on -- is
17 our liability.

18 Each year when they accrue, they add -- you know,
19 they add to the liability if they go up, or they go down,
20 if valuations decline. In our case, the year-over-year
21 accrual was actually negative. But in addition, there was
22 a paydown that reduced the majority of the liability that
23 was outstanding from, I think, roughly 1.1 to almost 600
24 million today.

25 CHAIRPERSON JONES: Okay. Okay. That makes

1 sense.

2 And then I think I'll hold there and go to Ms.

3 Yee.

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

5 I, too, want to just compliment the great report,
6 and just the significant progress. And I had a couple of
7 questions. And first as it relates to ESG on page six you
8 speak about a roll-out of the real estate ESG
9 consideration matrix. And while we've talked about energy
10 optimization, can you give us a little bit more of flavor
11 of the types of things that you'll be focusing on as
12 you're underwriting assets.

13 INVESTMENT MANAGER RICHTMAN: Thank you for the
14 question, Ms. Yee.

15 So as we're underwriting assets, a couple things
16 I mentioned were climate risk. And when we developed the
17 real estate version of this matrix, we really looked at
18 best practices in the industry. You know, we looked at
19 PRI. We looked to the task force on, you know, climate
20 risk disclosure. We look to SASB. We look to GRESB. And
21 we also sort of reviewed and built upon what we had done
22 for infrastructure.

23 So one thing our managers will be looking at is
24 indirect risk from climate change as well as direct,
25 looking at resilience of surrounding infrastructure, for

1 instance, water scarcity issues amongst others. And, you
2 know, a couple I'd mentioned before were safety, labor and
3 community relations as well as, and things like wellness
4 in buildings is becoming a very important feature for
5 tenants for the type of quality tenants we would like to
6 have.

7 So that's on the risk matrix. And, you know, one
8 important piece of that I will also mention is that we --
9 we do actually look to our managers to incorporate
10 sensitivities or economic values into the financial model
11 as part of looking at this ESG consideration review

12 COMMITTEE MEMBER YEE: That's great. Good.
13 Thank you.

14 And then I don't recall, but we're undergoing a
15 carbon footprinting analysis of this -- okay -- of the
16 portfolio. Yeah. Can you talk about the timing of when
17 that might be completed?

18 INVESTMENT MANAGER RICHTMAN: Sure. As part of
19 the total fund, ESG strategic plan, Real Assets has a
20 deadline of 2019. And using the GRESB reporting tool, it
21 will actually be facilitating us meeting that goal. So
22 our real estate core managers, for instance, started
23 reporting into GRESB, and, you know, reporting their
24 carbon footprint as part of this past reporting cycle.

25 COMMITTEE MEMBER YEE: Okay. Good.

1 And then I don't know the answer to this, but it
2 just got me thinking about with the increase separate
3 accounts, will that have any impact with respect to the
4 application of the Responsible Contractor Policy
5 provisions?

6 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: It
7 will, and in the right direction is how I would put it.
8 In a commingled fund, it's very hard --

9 COMMITTEE MEMBER YEE: It's hard, right.

10 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: -- to
11 effectuate the RCP policy where as in a separate account,
12 it is really weaved right into the -- into the operating
13 agreement as part of the deal.

14 COMMITTEE MEMBER YEE: Okay. But nothing on --
15 of the policies will change, but it will just be easier to
16 apply those provisions to a separate account.

17 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: To
18 apply it, correct.

19 COMMITTEE MEMBER YEE: Okay. Got it.

20 And then lastly, you know, I'm reading about all
21 this great progress, and I'm also thinking about some
22 ideas that our friends in Washington have relative to
23 potentially some tax changes that could influence
24 particularly financing and investments in this particular
25 area. Are we taking some of those changes and potential

1 impacts that some aspects of the federal tax proposals may
2 have on activities here?

3 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Are
4 you -- which are you talking about?

5 COMMITTEE MEMBER YEE: Some of the tax benefits
6 with respect to financing and -- it's a moving target, so
7 it's -- I just want to be sure that we've got our eyes on
8 whatever changes may be happening from a tax benefit
9 perspective that could affect the asset class.

10 CHIEF INVESTMENT OFFICER ELIOPOULOS: The short
11 answer yes. And we're working with our federal
12 lobbyist --

13 COMMITTEE MEMBER YEE: Okay.

14 CHIEF INVESTMENT OFFICER ELIOPOULOS: -- to
15 identify those and as well our tax counsel --

16 COMMITTEE MEMBER YEE: Great.

17 CHIEF INVESTMENT OFFICER ELIOPOULOS: -- to helps
18 us sort through that.

19 There are some provisions that could have an
20 impact on us directly and others more indirect.

21 COMMITTEE MEMBER YEE: Right. Okay. Good.
22 Thank you.

23 CHAIRPERSON JONES: Okay. Ms. Taylor.

24 COMMITTEE MEMBER TAYLOR: Thank you. Sorry about
25 that. I had a question that J.J. Reminded me of. On page

1 46, your staffing overview. And I was -- I kind of was
2 wondering if, as we're working for implementing our ESG
3 throughout our real asset class, as we are hiring folks
4 for our current vacancies or who we have hired, what --
5 are you looking at the value-add of diversity in those
6 hires?

7 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Well, I
8 think we take the approach of diversity is an important --
9 an important part of, you know, CalPERS' strategy today.
10 It can't -- you cannot pick a person, I believe, by law
11 based on, you know, a diversity criteria.

12 COMMITTEE MEMBER TAYLOR: Right.

13 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA:

14 However, you know, if -- I will say that I would
15 put the real assets unit against just about any
16 infrastructure forestland or real estate outfit, and I
17 believe we have a very diverse group of people in terms of
18 backgrounds, and skills, and knowledge.

19 And one of the things that Ed Yrure touched upon
20 in his comments is, you know, we introduced another layer
21 in our investment decision making, which was the
22 Investment Management Subcommittee -- Investment Manager
23 -- excuse me -- Subcommittee, which all of our investment
24 managers participate and get to, you know, opine and
25 provide their view on a particular deal. And that really

1 helps not only for communication and collaboration, and
2 just good team work, it really allows for a much more
3 diverse set of views beyond just what might be seen by the
4 Board consultants or the Real Asset Investment Committee.

5 COMMITTEE MEMBER TAYLOR: Okay.

6 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: So
7 we've really put that in for bringing that -- your point
8 on diversity to really weave it into again the decision
9 making that we have.

10 COMMITTEE MEMBER TAYLOR: Good. Thank you. And
11 then I had one other question. On page 49, the current
12 status update. At the bottom of the page, "Canyon and
13 CalPERS discussing broadening and expand Emerging Manager
14 Program". And I just wanted to know if you wanted to kind
15 of expand on that a little bit, and just give us a little
16 bit of detail. I don't need a lot, but...

17 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: So this
18 is really just -- I believe that we had a press release
19 about two or three weeks ago. It really was a timing
20 issue. We had to write this information before we weren't
21 sure if we were going to close. So it really is related
22 to the expansion of what we did with Canyon committing a
23 new amount of money to them to continue the work that
24 they've put in for the last five years.

25 COMMITTEE MEMBER TAYLOR: Okay. Great. Thank

1 you.

2 CHAIRPERSON JONES: Okay. Ms. Mathur.

3 COMMITTEE MEMBER MATHUR: Thank you.

4 I just want to understand a little bit more about
5 infrastructure and perhaps how the strategy might be
6 evolving in the infrastructure space. I recognize --
7 we've heard many times the constraints that face us there
8 in terms of supply and demand and availability of -- and
9 our own criteria about -- around risk and leverage et
10 cetera. But could you talk a little bit about whether
11 we're still employing sort of the direct investment
12 approach versus fund investments, how that -- how our
13 thinking -- how your thinking is evolving around that, and
14 how many infra -- you know, and then given sort of the new
15 structure, how many infrastructure experts do you need to
16 have on your team, and do you feel like you have the right
17 resources?

18 And, you know, sort of how are we supporting,
19 even though infrastructure is now embedded in the whole
20 real assets, how are we supporting that element to grow --
21 that segment to grow?

22 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: What
23 we -- I would say we had a very good year in terms of our
24 deployment. You know, one and a quarter billion of
25 increase in our infrastructure program is, you know,

1 moving in the right direction.

2 When I started, it was just under two billion in
3 our infrastructure program. So we've really moved it in
4 a, I don't want to say, material way, but at least a
5 notable way.

6 In terms of the model going forward, we will
7 still explore direct investments that -- however, what
8 we're looking to implement is really a similar strategy
9 that we have had a lot of success with in real estate,
10 which is to partner with an Investment Manager that may
11 cover a region or a sector as their primary area of
12 expertise, and create a separate account, and then
13 allocate capital then on an annual basis, and have the
14 same types of rights that I answered before around the
15 commitment of that money, but also allow them the
16 discretion to act within the market as they see fit within
17 a set of guidelines that we set.

18 And so, that model is where we're going. We've
19 now successfully done two of those, and one on the U.S.
20 power and renewable side. And we've had two transactions
21 on the renewable side. And we've had one transaction in
22 the other one in Australia through this new model.

23 The hope is to add a few more. And it may entail
24 doing a commingled fund allocation alongside of those in
25 order to bring in potentially more direct deals through

1 that, but that's where it's going.

2 And to your last question, infrastructure is a
3 relatively nascent sector or asset class. It's -- there's
4 a dearth of talent out there. And -- however, you know,
5 we do have some strong internal resources within real
6 assets. But I wouldn't shy away from, if, you know, we
7 had the opportunity to bring in more. As the portfolio
8 grows, there will be -- there will be greater need for
9 that.

10 COMMITTEE MEMBER MATHUR: Okay. Thank you.

11 CHAIRPERSON JONES: Okay. That concludes the
12 questions on that.

13 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Can I
14 respond to one of your questions --

15 CHAIRPERSON JONES: Sure.

16 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: -- Mr.
17 Jones?

18 CHAIRPERSON JONES: Go ahead.

19 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: And we
20 follow up later, but I wanted to -- you asked to break out
21 infrastructure and forestland, and the asset management
22 fees for infrastructure were 17 million. The incentive or
23 profit sharing were 30 million for 47 million total.

24 And then for forestland, it was 10 million of
25 asset management fees, and zero for profit sharing

1 payments or incentive fees.

2 CHAIRPERSON JONES: Okay.

3 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: But we
4 can follow up more. I just wanted to get that to you.

5 CHAIRPERSON JONES: Okay. Thank you.

6 Okay. Now, it's time to have the real asset
7 annual program review by our consultants. We will go --
8 start with Pension Consulting Alliance, and then followed
9 by Meketa, and then by Wilshire.

10 (Thereupon an overhead presentation was
11 presented as follows.)

12 MR. GLICKMAN: Good afternoon, Mr. Jones and
13 members of the Committee. I'm David Glickman from Pension
14 Consulting Alliance. I'm joined by my colleague Sarah
15 Bernstein who's been with Pension Consulting Alliance for
16 the past 15 years and who heads our practice group for
17 ESG.

18 We're going to use the next several minutes to
19 comment on the real estate portfolio, and then, of course,
20 be available for questions.

21 As one of your resources, there's several key
22 points that we would like to make in reviewing the real
23 estate. First, the portfolio is reliably performing in
24 line with its intended role, and is being managed
25 according to the Board's Investment Beliefs for the long

1 term. It's providing diversification from publicly traded
2 securities. It's providing current and reliable income,
3 and to a lesser degree, it offers inflation protection.

4 Just to stop for a moment, this is a big change
5 from how the portfolio was 10 years ago, when it was much
6 more speculative, when it was a shorter term investment
7 horizon with much more risk, and a much more
8 appreciation-oriented return, as opposed to a current
9 income return.

10 The second point is that the Investment Committee
11 must consider that the commercial real estate markets are
12 going to continue to return positive returns. However,
13 PCA believes that lower rates of return than what you've
14 enjoyed during the past five to six years. The drivers of
15 the lower returns, Paul and his team alluded to and
16 mentioned, they are the increase of supply of new
17 properties, and the changing patterns of use of the
18 existing properties, and the likelihood that interest
19 rates are going to be higher over the next several years
20 than what we've enjoyed till now.

21 What might be an offset to the slowing of
22 increases in value or the decline in value overall is
23 there still is a huge and unprecedented amount of capital
24 that's available to purchase real estate.

25 And if you think about the denominator effect,

1 when the equities' markets have had such a terrific run as
2 they've had, that lowers the percentage that you have in
3 real estate just by standing still. So that will --
4 there's an impetus to rebalance. And so that's going to
5 create demand for real estate, in spite of the fact that
6 the fundamentals aren't likely to be quite as strong as
7 what they have been.

8 You still have all the usual suspects, insofar as
9 retirement plans, private family investors, high net
10 worths, sovereign investors, and REITs, all of whom are
11 flush with capital and are competing, in many cases, for
12 the same properties that you seek.

13 So CalPERS will need to maintain the discipline
14 that they've demonstrated, and that the managers have
15 demonstrated, and not chase deals. We still think that
16 you have patience and some differentiating
17 characteristics, primarily size, that will be your
18 advantage for the long term.

19 Insofar as the compliance with the policies and
20 procedures that the Board has implemented over the past
21 several years, from PCA's point of view, there are no
22 material concerns at this time.

23 You've had a chance to look at the PCA report.
24 Sarah and I are going to focus on slides number 8 and
25 number 9, if I can figure out how to get there. And I'm

1 going to let Sarah talk about the ESG issues.

2 DR. BERNSTEIN: Okay. Thank you. As Beth
3 described --

4 CHAIRPERSON JONES: Microphone.

5 DR. BERNSTEIN: Is it on?

6 MR. GLICKMAN: Pus that.

7 DR. BERNSTEIN: Can you hear me now?

8 Thank you.

9 --o0o--

10 DR. BERNSTEIN: As Beth described, your staff and
11 managers continue to develop and implement new tools to
12 help protect the value of your real estate assets, as well
13 as make them more efficient, and more attractive to
14 tenants.

15 These efforts, in our opinion, can enhance the
16 long-term performance of your portfolio as well as reduce
17 risks. In particular, over time, PCA believes that these
18 efforts can result in actual hire occupancies and net --
19 higher net rental income.

20 In our opinion, CalPERS is extremely fortunate to
21 be in a situation to have the sufficient resources, and
22 analysis ability -- ability to analyze the potential
23 return on your -- on new capital improvements, which can
24 overtime result in lower turnover, increased rents, and
25 lower expenses across all your property types that you're

1 holding.

2 This year, we believe CalPERS made fairly
3 meaningful progress on the ESG elements of your strategic
4 plan for real estate, as Beth mentioned, with 15 of your
5 21 real estate managers participating in the GRESB survey.
6 You're July roll-out in real estate -- excuse me -- of the
7 ESG consideration matrix, and finally the participation in
8 the climate data -- risk mapping program.

9 You're gathering material information in your
10 real estate portfolio on ESG data that really you didn't
11 have before in a systematic way. These efforts resulted
12 in progress from your strategic plan on ESG manager
13 expectation targets.

14 Because ESG indicators and analysis are
15 relatively new, not just in real estate, but across all
16 capital markets, we expect these questions and metrics
17 that you use to identify risks and opportunities will
18 continue to evolve and change. One mention even of a
19 category that wasn't here a few years ago with health --
20 was health issues in buildings.

21 In PCA's opinion, wider disclosure by market
22 participants of standardized material data on ESG issues
23 can help both CalPERS more efficiently, price and identify
24 ESG risks and opportunities, and the capital markets as a
25 whole.

1 Those are on the research elements. You've added
2 significant progress on the energy optimization program to
3 the point where staff has begun to process and -- the
4 process of identifying specific options and assessing
5 which options will -- can offer the greatest material
6 opportunities to your portfolio for the -- over the long
7 term.

8 In our opinion, energy optimization can be a
9 critical -- a crucial component of any real estate
10 portfolio, but particularly central to a core real estate
11 portfolio where you now have meaning -- most of your
12 assets.

13 I'm looking forward to continuing helping PCA
14 consult to and serve the CalSTRS -- CalPERS Board, excuse
15 me, on -- particularly on the ESG elements of your
16 program.

17 Thank you.

18 MR. GLICKMAN: I'm going to try and turn to page
19 nine. There -- too fast.

20 This is the strengths, weaknesses, opportunities
21 and threats analysis that we have used as talking points.
22 As Mr. Costigan would say, tell us the good news and the
23 bad news and let's look forward.

24 In terms of strength, when we began working --
25 when this team began working with the CalPERS real estate

1 portfolio at the beginning of 2009, it was very different
2 than what it is now. And we believe that you have a
3 program and a team of which you can be proud in your real
4 estate portfolio. It's doing the job that it's intended
5 to do.

6 You have good diversity on the team. You are
7 enjoying an increasingly positive profile within the
8 market, your process for recognizing risk and mitigating
9 it is significantly improved, and the cross-pollination
10 between the real estate, the other real asset classes, and
11 the rest of the investment team has never been better.
12 And that's going to help you get performance and reduce
13 risk

14 In terms of opportunities, in addition to
15 cross-pollination, the idea that you are getting your arms
16 around your data, and you're going to be able to manage
17 your portfolio more efficiently because you will be able
18 to see things among the data that you haven't previously
19 had the tools to see, that will help reduce the risk as
20 well.

21 In terms of weaknesses that we would point out to
22 you, most of the weaknesses are outside of your control
23 directly, because they're market conditions. And as big
24 as you are, you still can't influence them very
25 effectively all by yourself.

1 One of the suggestions that you're making
2 progress on, but still have some place to go, is from the
3 seller's side, which is to say should we call CalPERS and
4 see if they want to buy our buildings or not. It's a
5 little more complicated to deal with you than it is with
6 some other sellers. And your standards for return are
7 pretty well known, and there isn't anything that's cheap
8 yet.

9 When the time comes you, are better positioned,
10 as Paul described, to take advantage of market
11 opportunities. But the truth of the matter is, you don't
12 want to be buying the Class C malls or the Class B malls
13 at almost any price, just because they're not consistent
14 with what your strategic long-term real estate plan is.

15 Another area that you still have some miles to go
16 is in the investing in real estate outside the United
17 States. The strategic plan and the sector plan are in
18 place. They call for a limited amount of investment
19 overseas. And the idea of being able to recreate the
20 structure -- that management structure, the business model
21 that's been successful for you in U.S. properties is a
22 little bit more difficult to execute outside the United
23 States.

24 And so there's still more work to be done to
25 bring the portion of the international portfolio up to a

1 level that would be consistent with some of the other
2 assets in which you invest.

3 As to threats, there is likely to be a downturn
4 in valuations selectively at first, and then perhaps more
5 broadly, depending on other capital market events.
6 Clearly, we're seeing more new construction. Clearly,
7 we're seeing changes in the way people utilize the
8 existing spaces.

9 Five years ago, we-work was not something about
10 which we spoke very often, but now it's part of a lot of
11 major cities, office building considerations. The
12 disparity between online sales and brick-and-mortar sales
13 continues to get an incredible amount of publicity,
14 disproportionate to the amount of sales, but still
15 important to keep in line.

16 And because this is a long-term portfolio with
17 long-term assets, and long-term business plans, those
18 shifts are going to need to be factored and incorporated
19 into portfolio construction and the selection of which
20 properties to sell and which ones to buy.

21 We agree with what staff offered, that the higher
22 quality assets in the more desirable sought-after
23 locations, sought after by the space users, the tenants,
24 the occupants are likely to provide you with some downside
25 protection compared to real estate in general, where you

1 don't have that quality.

2 Another threat is you have an interesting group
3 of managers. And they are, in many cases, privately held,
4 and they are, in many cases, going through actuarial
5 changes as their managements age out and need transition.

6 So something that needs to be monitored, which
7 you are doing, but just to be out there, is the identity
8 and the personnel at your managers. Unlike some other
9 asset classes, most of the separate account managers you
10 have are, what I would consider to be, captive to you,
11 because you are their only account, and they are privately
12 held. So the idea of succession may be a little bit
13 different than it would be if they were large
14 institutions.

15 At this point, we wish to confirm that in PCA's,
16 there will -- opinion, there will be a correction. We're
17 not sure when it's going to be, or how far, or where. We
18 can say, however, that you are much better positioned to
19 withstand it, and to be in a position to take advantage of
20 it, should there be opportunities, than you were the last
21 time there was a correction.

22 We meet at PCA regularly with staff. In addition
23 to the Real Asset Investment Committee meetings, we have a
24 standing weekly meeting. And it's not uncommon for Paul
25 and senior staff to talk to Christy and me and the rest of

1 our team in between those meetings just on particular
2 issues.

3 You have given them guidelines that make the
4 chances of them veering off advertently or inadvertently
5 much less than they have been previously. And by reducing
6 those risks, by having these policies and procedures in
7 place, the times -- to your earlier question, J.J., about
8 us disagreeing with them, or not liking an investment, or
9 saying it doesn't fit, they're a lot fewer, because we're
10 looking with the same direction much more closely than has
11 historically been the case.

12 We still disagree. We still have opinions about
13 why something belongs in one bucket or another. And we've
14 been able to successfully work those out between us
15 respectfully, patiently, but with pretty good back and
16 forth.

17 At this point, Sarah and I would be glad to take
18 any questions that the Investment Committee members had
19 for the real estate portfolio.

20 CHAIRPERSON JONES: Yeah, we have some -- a few
21 questions. But on this chart here, why isn't climate
22 change a threat?

23 MR. GLICKMAN: It should be.

24 CHAIRPERSON JONES: So it would be added.

25 And that threat is long term, and -- well, I'll

1 come back to that in a minute.

2 Okay. Mr. Lind.

3 COMMITTEE MEMBER LIND: Thank you. First, I
4 wanted to thank PCA for increasing Sarah's travel budget
5 and allowing her to join us here in Sacramento. And I
6 understand that will be on a regular basis going forward.
7 So I think we all look toward to tapping into your
8 expertise in the ESG area. So, welcome.

9 David, in your opening remarks, you -- one of the
10 assertions that you made is that CalPERS has the advantage
11 of size. And we often hear that we're constrained by our
12 size. So can you talk a little bit more about what you
13 think some of -- what advantage size gives us going
14 forward?

15 MR. GLICKMAN: Yes, the quality of assets that
16 you seek for your long-term core portfolio continue to
17 grow and grow and grow. And so it's not uncommon that
18 staff will be looking at proposals to buy an office
19 building that's a billion ticket.

20 And so in those larger transactions, as well as
21 portfolio sales that are becoming a little bit more
22 frequent, there your size will be an advantage, because
23 there aren't very many people who, on their own, can
24 commit to doing the entire transaction.

25 COMMITTEE MEMBER LIND: Great. Thanks.

1 CHAIRPERSON JONES: Mr. Jelincic.

2 COMMITTEE MEMBER JELINCIC: Dave, can you -- can
3 you describe a little bit your role at the real estate --
4 or the Real Asset Investment Committee?

5 MR. GLICKMAN: Well, similar to what Paul said,
6 we review the materials. We listen to the presentations.
7 And before the vote, we have a chance to make comments.
8 Sometimes the comments are whether we think the
9 assumptions are appropriate. Sometimes we ask whether the
10 risk-adjusted return has considered certain elements that
11 may or may not have been fully described in the
12 presentation. Sometimes, we ask about things that are
13 beyond the asset. Like, let's talk about the headline
14 risk that might come with this particular asset or not.

15 So I think we try to, as best we can, be the eyes
16 and the ears and represent what the Board's point of view
17 would be, if the Board had enough time to sit in on
18 individual transaction decisions.

19 COMMITTEE MEMBER JELINCIC: Okay. And then on
20 your SWOT, maybe I have overlearned the lesson of the last
21 war, which I often accuse people of doing, but in
22 opportunities, residential development, can you expand
23 what you see there, and why you think we ought to be
24 taking advantage of that?

25 MR. GLICKMAN: So in certain markets, the idea of

1 building to core, as opposed to waiting for the
2 construction and development to be done and the leasing to
3 occur and then buying the property on a retail cost basis,
4 maybe advantageous. Your managers, and particularly the
5 Boston-based GID firm, have the capacity. And from time
6 to time, they will approach staff and say here's an
7 opportunity to build a residential property, and lease it.
8 And the return on investment seems to be a positive when
9 it comes to a risk adjusted compared to buying the same
10 property later.

11 So on a selective basis, that's a strategy or a
12 tactic -- actually, a tactic, that from time to time is
13 considered, and is vetted by staff ahead of time to make
14 sure that the combination of all of the different managers
15 attempts to build to core, don't rise to an inappropriate
16 level of risk.

17 COMMITTEE MEMBER JELINCIC: So it's a focus on
18 apartments not single-family?

19 MR. GLICKMAN: Yeah, at this, point, it is.

20 COMMITTEE MEMBER JELINCIC: And your weaknesses,
21 you've identified the business model and resources. Can
22 you expand on those?

23 MR. GLICKMAN: You have a certain amount of
24 capacity for relationships and you've been managing that
25 relationship budget down over time to the extent that you

1 have relationships with non-strategic property types.
2 They're much fewer, but there still are some, and they
3 need to be monitored.

4 The other point was about succession that I
5 mentioned before, where you have privately held firms
6 whose founders and key professionals are going to be
7 retiring over the life of your investments, and to make
8 sure that those firms continue to be re-underwritten so
9 that the people who are succeeding them in the roles that
10 they've held are just as strong as the ones who are
11 departing.

12 COMMITTEE MEMBER JELINCIC: So in terms of
13 resources, do you think we have enough staffing for that
14 unit?

15 MR. GLICKMAN: I think you do, and one of the
16 reasons why I come to that conclusion is because the
17 attention that the existing staff has had to spend
18 historically, or up till a year or two ago, on putting out
19 fires can now be transferred and turned towards new
20 initiatives. And the hours in the day can be devoted to
21 thinking about disruption of retail, whereas three or four
22 or five years ago in the aftermath of the GFC, that wasn't
23 available in terms of units of office. There were fires
24 to be put out and there were things that had to be fixed
25 right then.

1 So the headcount I think is a reasonable amount.
2 I think there's going to be a shift in how they spend
3 their time to be more involved than they have been in
4 portfolio management and ongoing portfolio construction.

5 COMMITTEE MEMBER JELINCIC: Yeah, I remember a
6 few of those fire drills.

7 But the business model, what -- I'm not sure what
8 you mean there?

9 MR. GLICKMAN: I think your business model is not
10 perfect of using separate account manager. But let's not
11 let perfect be the enemy of extremely good and getting the
12 job done.

13 And the number of relationships may go up or may
14 go down slightly over time as different types of real
15 estate may be considered. But the idea of being here in
16 Sacramento, having an expert staff overseeing specific
17 property types or specific geographic locations, I think
18 it's a reasonable business model for the real estate
19 component of the portfolio.

20 COMMITTEE MEMBER JELINCIC: Okay. Let me try
21 to -- you've identified the business model as a weakness.
22 What is the weakness you see in the business model? I
23 mean, you've told me all these good things about it,
24 but...

25 MR. GLICKMAN: The weakness is that the managers

1 you employ are going to change over time.

2 COMMITTEE MEMBER JELINCIC: Okay. So it's the
3 succession issues?

4 MR. GLICKMAN: Continuity and succession, yes.

5 COMMITTEE MEMBER JELINCIC: Which really doesn't
6 go to our business model, it goes to -- more towards our
7 manager selection, if I'm understanding you correctly?

8 MR. GLICKMAN: Well, I'm not sure that I could
9 tease those two apart from one another.

10 COMMITTEE MEMBER JELINCIC: Okay And then on
11 threats, retention of professionals. Yeah, we've got a
12 report that says we're not losing anybody unless they
13 retire. What do you -- where is the threat that you see
14 there?

15 MR. GLICKMAN: As has been discussed in previous
16 reports, Sacramento may not be where everybody wants to
17 live for their entire career. Working in this kind of a
18 business model as opposed to being an entrepreneur, or a
19 developer, or a direct owner of real estate, may not be
20 for everybody. And some of the skills that are acquired
21 as a professional in the real estate group here can be
22 transferred to other firms and other activities.

23 And so I think we need to be aware that there
24 will be other opportunities for the most talented people,
25 and to try to retain them whenever possible and recognize

1 that not everybody is going to say.

2 COMMITTEE MEMBER JELINCIC: Okay. And I will
3 throw this to you or Paul whoever is appropriate. Early
4 on we got some reports on the flooding in Houston and its
5 impact on our properties. Has there been any further
6 developments? I mean, it looked like we pretty much
7 escaped most of it.

8 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: It
9 appears so. It doesn't look like anything major. There's
10 one property I think I mentioned in Florida that has
11 experienced some challenges. However, all the rest are
12 fine.

13 COMMITTEE MEMBER JELINCIC: And the big mall that
14 we have there?

15 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: There
16 was minor --

17 COMMITTEE MEMBER JELINCIC: Minore. Okay. Thank
18 you.

19 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Thank
20 you.

21 CHAIRPERSON JONES: Mrs. Mathur.

22 COMMITTEE MEMBER MATHUR: Thank you, Mr. Chair.

23 A couple of questions. One is that in -- as you
24 were sort of talking about sort of the market dynamics at
25 the moment, one of the things you mentioned is the

1 changing pattern of use of existing property types. Could
2 you expand on that a little bit what the implications are
3 for our own portfolio? I mean, are you talking about
4 things like urban agriculture or -- I guess I'm not really
5 sure what you're talking about.

6 MR. GLICKMAN: I'm talking about office building
7 usage, which over the last 15, 20 years has gone from --
8 to become much less traditional in terms of what types of
9 spaces people want, what hours people work, what commuting
10 powers might or might not be. That would be one example
11 of disruption.

12 Another example would be retail, insofar as
13 trying to anticipate how to capture consumer's presence in
14 what used to be just a mall and is now a combination
15 mall/entertainment center, adjacent to a health care
16 facility, adjacent to an educational facility, all kinds
17 of different uses for spaces then had previously been
18 contemplated, all with the idea of capturing the traffic,
19 which in turn captures the attention of the occupants and
20 are willing to pay higher rents to be in the middle of all
21 of that.

22 COMMITTEE MEMBER MATHUR: I see. And so what are
23 the implications of that for our --for the portfolio that
24 we hold?

25 MR. GLICKMAN: Well, I think you're in a good

1 position relatively, because you are well capitalized, you
2 are not burdened with an overwhelming amount of debt, and
3 you have really sharp property people who are operating
4 your high quality assets, and who, not being constrained
5 by few capital resources, if they see a chance to change
6 the use of a portion of the property, which would enhance
7 the overall property, they're going to come back and make
8 those suggestions, whether they're in charge of occupant
9 or, as was described before, the energy conservation
10 programs, any one of which is going to improve the profile
11 of the property, hopefully increase the return on
12 investment, and perhaps reduce the risk somewhat.

13 COMMITTEE MEMBER MATHUR: Okay. Thank you.

14 Just a follow up on the threat that you've
15 identified about -- or sorry, rather the weakness you
16 identified about manager concentration and some of the
17 changing -- the changing leadership teams at some of these
18 managers. Do you think that the current approach of
19 having 30 strategic partnerships, or we're calling
20 separate accounts, is going to continue to be an effective
21 strategy or that we need to revisit that number, or how
22 often we turnover those types of relationships, or what's
23 your thinking around that?

24 MR. GLICKMAN: I'm thinking 30 isn't a perfect
25 number particularly. I think compared to historically the

1 number of relationships that you've had to manage, it's a
2 much more manageable number.

3 Your portfolio is currently concentrated in a
4 much smaller number than 30 of managers. And if you look
5 at those roughly eight to ten separate accounts that
6 occupy the bulk of your core real estate, that's a pretty
7 small number. There will be other opportunities over time
8 to add to that number, and there may be one or two of
9 those managers who, over time, decide for whatever reasons
10 they're not as interested in doing what they've been
11 doing, and so there will be a switch or a reallocation.

12 I think that the real question is are you seeing
13 the deals, whether they're priced according to what you
14 need or not. And I think the answer right now is you are
15 seeing most of the deals relatively early in the offering
16 process.

17 So that gives the managers and staff the chance
18 to decide whether to use their dry powder or not. We look
19 at the pipeline reports that come from staff every week to
20 see what's being considered, and how much that aggregates,
21 and there's still a lot of deal flow. Just whether or not
22 it's priced to reward you for the risk, that's a different
23 discussion.

24 COMMITTEE MEMBER MATHUR: So just finally just to
25 press on this, you mentioned -- you said 30 is not the

1 perfect number. What do you mean by that? Is it too
2 high, is it too low? I mean -- or maybe you're really --

3 MR. GLICKMAN: Oh, I think it's a reasonable
4 number.

5 COMMITTEE MEMBER MATHUR: Okay.

6 MR. GLICKMAN: And if it was 31 or 29 --

7 COMMITTEE MEMBER MATHUR: Okay.

8 MR. GLICKMAN: -- like I wouldn't have a big
9 fight about it one way or the other. I don't think it
10 should be 3, but I don't think it should be a hundred
11 either.

12 COMMITTEE MEMBER MATHUR: Okay. And 8 to 10
13 high -- I guess it might be useful in future reports to
14 understand what the concentration is. I'm not sure I
15 fully understand or appreciate what the concentration is
16 among the -- among the partners or among the managers.

17 MR. GLICKMAN: So very briefly, if you look at
18 the four major property types of apartment, shopping
19 center, office building, and warehouse industrial, you are
20 guided towards between two and three for each one of
21 those.

22 COMMITTEE MEMBER MATHUR: Okay.

23 MR. GLICKMAN: So that gets you to 8 to 12. And
24 then you have more specialized situations and
25 international situations. So now you're building on to

1 that core number, so that gets you there.

2 COMMITTEE MEMBER MATHUR: Okay. Thank you.

3 CHAIRPERSON JONES: Okay. Thank you. That
4 completes the questions on this item, we now move to
5 Meketa.

6 MR. McCOURT: Good afternoon. Steve McCourt with
7 Meketa Investment Group. To my right Lisa Bacon, who
8 leads our infrastructure research. We've provided the
9 Board our letter detailing our review of the
10 infrastructure program.

11 Just a couple of overriding comments before I
12 hand it over to Lisa for her to review in a summary
13 fashion. The -- Meketa's contract was completed obviously
14 within a handful of days of having to put together this
15 year's annual review. So I think -- I think you'll find
16 it sufficiently deep and broad, but as you would expect,
17 we'll continue over the coming weeks and months to collect
18 information, meet with staff, and continue to onboard
19 fully into our new role as the Board's infrastructure
20 consultant.

21 On that note, I just want to highlight, as we did
22 with private equity as well, the Board has been -- the
23 staff has been very helpful in providing us all the
24 information that we need, providing access to them a
25 timely fashion. We want to thank staff for that.

1 This particular review relies on our review of
2 the real asset annual program review, including
3 supplemental reports material provided by staff. It calls
4 with a variety of staff members involved in the
5 infrastructure area, as well as all of the Board policies
6 and strategic plans.

7 So with that, I'll hand it over to Lisa for a
8 quick overview.

9 MS. BACON: Thank you. Lisa Bacon, Meketa
10 Investment Group. So I will -- thanks, Steve. Lisa Bacon
11 Meketa Investment Group. So I'll run through the topics
12 that we covered in the letter and be happy to take
13 questions.

14 With respect to performance, Paul and his group
15 have already gone over the exact numbers. The performance
16 is certainly above the benchmark and consistent with prior
17 periods, and a good combination both of appreciation and
18 cash yield as is part of the goal.

19 With respect to the return, the returns that
20 you're receiving, they're consistent with what we would
21 expect with the portfolio that you have now. With respect
22 to implementation, we see the separately managed accounts,
23 the direct investments, and the commingled funds in the
24 kinds of proportions that you're looking for as you
25 migrate towards preferring more separately managed

1 accounts, and as well direct investments. And so those
2 movements over the last year are in the direction that
3 you're looking for.

4 New contributions as -- and new value as Paul
5 mentioned, over a billion is a very healthy and impressive
6 number in a year.

7 Two of the investments that were funded during
8 the period of the review, but not necessarily executed are
9 consistent with the kinds of investments that you're
10 looking for, with the partners that you're looking for,
11 and the return profile. These are very meaningful and
12 impressive accomplishments in the market environment that
13 Paul and his team have discussed and are also are
14 essentially very similar to the real estate environment
15 that your other consultant just covered.

16 It's extremely competitive. There's an awful lot
17 of capital out there seeking high quality investments.
18 Every day another pension plan either has a new
19 infrastructure allocation or has an increase in one. And
20 certainly as plans have had healthy returns in other asset
21 classes, as well as in infrastructure, there's been
22 more -- the allocation number that you're shooting for
23 essentially has grown.

24 With respect to investment policy, we went
25 through the policies that are applicable for the program,

1 and found essentially everything generally in compliance
2 or very specifically in compliance. We reviewed the
3 compliance against the CalPERS investment policy for real
4 assets, the Total Fund Investment Policy, and the
5 Investment Policy Procedures and Guidelines for the Real
6 Asset Program. We looked at the strategic objectives
7 which speak to stable income and cash yield. The yield
8 numbers are in the range that you would expect and that
9 you're looking for.

10 There is good -- there are metrics that show
11 there's diversification of for this program with respect
12 to equity risk. And those metrics are supportive of those
13 diversification benefits. I already mentioned the
14 performance objectives and the benchmarks. That is very
15 much in compliance and exceeding.

16 With respect to portfolio diversification, risk
17 classifications, core value-add, opportunistic are all
18 within the ranges. Geography, classifications are all
19 within the ranges. With respect to segments and sectors
20 that Paul spoke some of, these particular targets are
21 applicable as we understand it at the Real Asset Program
22 level, not at the infrastructure program -- sub-program
23 level, but we included those sectors and those targets in
24 our report, and noted that essentially in infrastructure
25 you are generally consistent. And to the extent that

1 you're a little high or a little lower, infrastructure is
2 not going to throw the how Real Asset Program out of whack
3 for you.

4 With respect to external managers, you don't have
5 any managers that break that target. With respect to
6 leverage and as well with public securities, all those
7 metrics a compliant with your policies.

8 With respect to staffing and resources, we were
9 able to review the materials from last year and from this
10 year, and you all have already had some conversation and
11 questions around those. The observations that I can make
12 are that, in general, the numbers or the -- on a
13 percentage basis are consistent with the financial
14 industry as a whole, probably a little lower, in general,
15 both at the administrative staff and investment
16 professional level. Those numbers tend to fluctuate over
17 time certainly around the financial crisis. And near that
18 time, those numbers were a lot higher. They've been
19 stable over the last couple of years. And so these
20 numbers are generally on sort of low side of those things
21 that we see.

22 With respect to Investment Believes, the
23 infrastructure program supports a number of those with
24 respect to the cash yield, and stability, and inflation
25 protection. And so the program is well aligned with

1 those.

2 MR. McCOURT: And that concludes our report.

3 CHAIRPERSON JONES: Okay. Thank you.

4 We have a couple questions. Mr. Jelincic.

5 COMMITTEE MEMBER JELINCIC: Well, when you looked
6 at compliance, I hope that it is specifically compliant
7 and not just generally compliant.

8 But --

9 MS. BACON: As specific as the numbers are,
10 they're compliant.

11 COMMITTEE MEMBER JELINCIC: Okay. Can you
12 compare and contrast our infrastructure program to the
13 CalSTRS infrastructure program? You know, there's been
14 some kind of spectacular numbers over there, but can you
15 compare and contrast the two?

16 MR. McCOURT: My general observation is the
17 program here is larger, got started earlier, has deployed
18 more assets and is -- performance I'd have to -- I'd have
19 to kind of check. I don't know how the performance
20 compares between the two.

21 COMMITTEE MEMBER JELINCIC: And the underwriting
22 program they have over there?

23 MR. McCOURT: Similar, in terms of the types of
24 assets and strategies. CalPERS has a larger staff than
25 CalSTRS has in executing across a variety of moves,

1 whether it be separate accounts, or direct investments,
2 co-investments, et cetera.

3 COMMITTEE MEMBER JELINCIC: Thank you.

4 CHAIRPERSON JONES: Ms. Mathur.

5 COMMITTEE MEMBER MATHUR: Thank you.

6 I recognize that you all have just taken over
7 this assignment, and so you didn't have as much time as
8 you might have otherwise had to sort of prepare for this
9 item. But my -- I guess my question is if you've had a
10 chance to really fully review the business model of -- in
11 real assets and the integration of the three assets -- the
12 three sub-asset classes into one asset class, and whether
13 you have any concerns or observations to make about what
14 the implications are specifically for infrastructure, and
15 our ability to effectively, you know, deploy capital in
16 the way we want to, even accelerate the deployment of
17 capital, understanding that the market dynamics are
18 challenging, and have the expertise, and we'll be able to
19 retain the expertise to do that?

20 MR. McCOURT: I think that's an important
21 question. I think we'd prefer to have a bit more time to
22 integrate with staff and learn more about the reasons that
23 the staffing was modified before having any conclusions on
24 that. But we're happy to come back to the Board with
25 that.

1 COMMITTEE MEMBER MATHUR: So maybe, Mr. Chair, if
2 I might, just given sort of the timing of this -- of the
3 selection of Meketa and their -- the timing that they had
4 in terms of this review, if we could perhaps ask them to
5 come back in other two, three months or something to give
6 us a little bit more deeper dive into sort of their views
7 around the model, and how it's working out for
8 infrastructure and the implications for infrastructure.

9 CHAIRPERSON JONES: Sure. That's fine, because
10 they're here every month, so they could plan ahead to make
11 that kind of -- prepare that kind of response going
12 forward.

13 COMMITTEE MEMBER MATHUR: Thank you.

14 CHAIRPERSON JONES: Okay. Okay. Thank you.
15 That concludes that part.

16 Next is Wilshire.

17 MR. JUNKIN: Good afternoon, Andrew Junkin with
18 Wilshire. Recognizing I'm last on the agenda before lunch
19 and there's a busy day, I'll probably go quickly, somewhat
20 sped along by the fact that there haven't really been any
21 changes in forestland over the last several years. So the
22 opinion letter probably looks strikingly familiar. We
23 have made some updates along the way.

24 I did want to point out one of the pages, we've
25 graphed a rolling three-year correlation. And this really

1 is more fore real assets instead of forestland. We wanted
2 kind of a second set of eyes on is it doing what we intend
3 for it to do in terms of not sort of echoing the equity
4 risk, as we saw in 2007. And this is page 420 of 423.

5 I think you can see the pretty clear spike in
6 correlations during the kind of 2007/2008 time period.
7 There's a pretty natural leg down I think as the markets
8 kind of cool off, but then there's been more recently
9 another leg down. And I think that's really where the
10 change in philosophy is taking hold, and you're seeing
11 that in the numbers. So I think that's -- that's a good
12 news statement.

13 Performance, you've seen it has not been good in
14 this asset class. As Paul mentioned, it's been driven by
15 a focus on southeastern timber, a very lumpy portfolio.
16 And southeastern timber has been one of the worst
17 performing spots in the timber market.

18 We've talked some about the size of the portfolio
19 and the ability of CalPERS. CalPERS size is often an
20 advantage and often a disadvantage. And I would say in
21 timber it's a disadvantage. You'd have to be the biggest
22 buyer in the timber markets for a number of years for this
23 portfolio to get to even probably a five percent
24 allocation.

25 And then just, because I suspect there may be a

1 question about the integration of the three business
2 models coming out, I thought I might jump the gun on this.
3 From a forestland perspective, I've seen the benefits. As
4 Paul has really been engaged on some of the forestland
5 things, he's been able to shift resources internally to
6 address those. So I think the integration from that
7 perspective has gone well.

8 Happy to take any questions.

9 CHAIRPERSON JONES: No, we have no questions.

10 Thank you.

11 Like you say, it's the same report for several
12 years.

13 (Laughter.)

14 CHAIRPERSON JONES: Okay. Now, we move to
15 item that was under the consent information item that Mr.
16 Jelincic wanted to pull 4c was it, J.J.?

17 COMMITTEE MEMBER JELINCIC: Yeah.

18 CHAIRPERSON JONES: Okay.

19 VICE CHAIRPERSON SLATON: Mr. Jelincic.

20 COMMITTEE MEMBER JELINCIC: On 4c, attachment 1,
21 page four of four, 21 of the iPad, the footnote 2 at the
22 bottom, "Gross returns include the offsetting impact of
23 management fees incurred in the private equity fund
24 investments". I'm not sure what that footnote is telling
25 me.

1 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: It
2 means that these are essentially net returns for private
3 equity. For the other asset classes, where we're able to
4 fully have transparency into all the fees, we are showing
5 you the gross return for private equity, where the returns
6 listed here are actually the net returns.

7 COMMITTEE MEMBER JELINCIC: Okay. The -- you may
8 want to change where you put your footnote, so that it's
9 by private equity rather than at the top of the column.

10 4d has the issue of all the contracts under
11 the -- that we're letting under a million dollars. I will
12 point out to the unions, if you don't want to protect your
13 work, that's your problem, but the Board needs to actually
14 think about a lot of those being ongoing continuing
15 process and whether it couldn't be done more cost
16 effectively in-house.

17 And then on 4e, there were two bills referenced
18 on page 78, 1645 and 3857. And I'm just wondering have we
19 weighed in and expressed an opinion on it? There's
20 nothing in the article that -- or the report that says
21 that.

22 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

23 I'll have to consult with our Legislative Affairs
24 staff, Mr. Jelincic, and we'll have to come back with an
25 answer on that.

1 COMMITTEE MEMBER JELINCIC: Fair enough. Thank
2 you.

3 VICE CHAIRPERSON SLATON: Okay. I guess we move
4 to summary of Committee direction.

5 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:
6 Certainly, Mr. Vice Chairman. Wylie Tollette,
7 CalPERS staff.

8 So first, I think the Investment Committee
9 directed staff and Meketa to collaborate and do a quote
10 deeper dive into two topics related to the private equity
11 program, the first is why we have not been receiving the
12 full requested allocations, and then second, an evaluation
13 of the focus on the Core 30 managers strategy. That was
14 item 1. So I'll pause for a second, and see if we
15 captured that correctly.

16 There was quite a bit of discussion around that
17 one.

18 CHAIRPERSON JONES: I heard half of it, I think,
19 so --

20 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: Any
21 other comments from the folks that heard the whole thing?

22 (Laughter.)

23 CHAIRPERSON JONES: Okay.

24 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: The
25 second was to provide the memo. It's actually already

1 crafted with -- by staff related to the difference between
2 the arithmetic and the geometric returns and the
3 implications for the private equity benchmark.

4 Four -- I'll pause there to see if there's
5 questions or comments on that.

6 CHAIRPERSON JONES: Just go ahead and then we'll
7 see if we have -- any we'll come back at the end.

8 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

9 Okay. Four -- and I think staff actually
10 volunteered this one, but I saw a nod, so we'll make sure
11 to do this, which is to investigate if there -- the nature
12 of any CenterPoint political contributions by the
13 Centerpoint CalEast project.

14 And then last, but not least, I understand -- I
15 heard the Board direct Meketa to provide a follow up on
16 the infrastructure opinion letter in three months. So
17 those are the four that we had captured. So again, I'll
18 pause to see if there's any nuance that we want to add to
19 those.

20 CHAIRPERSON JONES: Okay. And I think the
21 other -- I don't know maybe it's routine, but the
22 disaggregation of the expenses on the forestland in terms
23 of the next report?

24 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: Oh,
25 yes. In fact, Paul and Sarah captured a number of

1 suggestions for the following year's reviews --

2 CHAIRPERSON JONES: Okay.

3 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

4 -- that I noted them captured. So all those --
5 all your specific suggestions were noted by the
6 presenters.

7 CHAIRPERSON JONES: Okay. Okay. Ms. Mathur.

8 COMMITTEE MEMBER MATHUR: Just quickly on the
9 Core 30, it was, yes, about that, but also sort of
10 generally what might -- what factors ought we consider in
11 terms of what the right number is and what the sweet spot
12 might be. There might be some more evaluation around
13 that, I guess. And I imagine the team is doing that work
14 anyway, but...

15 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

16 Great. Thank you.

17 CHAIRPERSON JONES: Mr. Jelincic.

18 COMMITTEE MEMBER JELINCIC: On the geometric
19 versus arithmetic, does that impact only the private
20 assets, or does it impact all of our benchmarks?

21 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

22 No, it impacts all benchmarks. And, in fact, it
23 impacts the calculation of any time-weighted return.
24 Just, in fact, I recall, I want to say it was May or June
25 earlier this year, we actually provided a memo on a

1 separate benchmark to the Board related to the same topic,
2 but we're happy to provide one specifically for private
3 equity.

4 As long as I'm talking about it, I'll spend 20
5 more seconds on it. If we could go back in time -- so to
6 your comment, Mr. Jelincic, on the Board's direction back
7 in 2013 -- and actually, it was also the Board's direction
8 in prior investment policies to include that 300 basis
9 point hurdle.

10 That hurdle was expresses as an arithmetic
11 hurdle. If we could go back in time and back to those
12 previous Investment Committees and change the motion that
13 was made, what we would say is direct staff to use a 300
14 basis point hurdle -- arithmetic hurdle and 158 basis
15 point geometric hurdle. That second part, that second
16 clause of the direction was never included.

17 But in retrospect if it had been, State Street
18 probably would have been calculating it correctly.
19 Unfortunately, what happened, as Mr. Baggesen mentioned
20 earlier, they read the 300, and they applied an arithmetic
21 hurdle for the last -- you know for essentially the term
22 of the Private Equity Program. And that's made the --
23 what is essentially supposed to be a one-year
24 noncompounded arithmetic hurdle of 300 basis points.

25 That's made a very, very challenging hurdle to

1 undertake. If you use the concept of a volatility
2 penalty, which Mr. Baggesen also mentioned, and the idea
3 that the compound is roughly half of the arithmetic, you
4 would have had to earn a dramatic level of outperformance
5 in your private equity portfolio to earn the 300 basis
6 point compounded hurdle.

7 The real hurdle that the Board approved back in
8 2013 was 158 basis points, and we're now proposing 150
9 basis point geometric hurdle. So the actual returns and
10 the actual benchmark that we're trying to hit is quite
11 similar. And I think basically if you look back in time
12 at the private equity benchmark, it's been changed three
13 or four times in the last number of years.

14 So the question of restatement comes up. If we
15 go down that path, the real question becomes is where do
16 we stop, because there's a whole number of different
17 issues that are embedded in the past private equity
18 benchmark decisions that CalPERS has made over the years.
19 It's changed a number of times.

20 COMMITTEE MEMBER JELINCIC: Well, I will point
21 out if we had had the discussion about 150 versus 300, we
22 might have had a different number and it certainly would
23 have been a different discussion.

24 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: I
25 think that's right.

1 CHAIRPERSON JONES: Okay. We're -- you're going
2 to provide the information --

3 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:
4 Yes, we'll provide the memo.

5 CHAIRPERSON JONES: -- and we'll have that
6 dialogue when the information comes.

7 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:
8 That's right. I was meant -- I was only
9 mentioning it, because there was quite a bit of commentary
10 around it. So thank you, Mr. Chairman.

11 CHAIRPERSON JONES: Okay. Thank you.

12 The -- now have two requests to speak Mr. Dan
13 Matusiewicz and Mr. Laura Rubaccaba.

14 MR. MATUSIEWICZ: Thank you, Mr. Chair and
15 members of the Board. I'd like to state my -- or voice my
16 opposition to an old topic.

17 CHAIRPERSON JONES: Would you restate your name
18 again for the record?

19 MR. MATUSIEWICZ: Sure. I'm sorry. It's Dan
20 Matusiewicz. I'm with the City of Newport Beach.

21 So I'd like to state my -- voice my opposition to
22 an old topic that is divestment mandates placed on the
23 Investment Office. You know, where we are today at 68
24 percent funded, we're 168 -- close to 160 billion short of
25 our target. Our system is in crisis. We're only one

1 recession away from reaching a point in which it will be
2 very difficult for the system to recover, an event
3 Horizon, if you will.

4 The math is pretty simple, we can either generate
5 greater investment returns, we can increase employer and
6 employee contributions, which we've done, or slash
7 benefits. And perhaps maybe we need to do all three.

8 The latter options seem to put the Board at odds
9 with both the employee groups and the retirees. So it
10 would appear to me that of the Board's options, the
11 simplest action would be to unwind some of the past Board
12 decisions to divest from certain asset classes, and
13 industries.

14 I realize that some of the divestments were
15 tactical in nature, but many were political in nature.
16 And some of the tactical reasons, for instance, tobacco
17 perhaps are no longer relevant. We know that reducing the
18 universe of investment options increases risk, and lowers
19 potential investment returns. That is an undisputed
20 mathematical fact. And it seems to run in contrary to the
21 whole ALM processes of de-risking the portfolio.

22 So of the choices before you, I respectfully urge
23 the Board -I hate to say this - not to sit on your hands,
24 but take action to undue some of the previous divestment
25 directives, and at the very least, suspend the previous

1 divestment directions until the system is no longer in
2 crisis.

3 Let the Investment Office do their job without
4 artificial constraints. By doing this, I think the
5 employees, the employers, and the retirees will all thank
6 you.

7 Thank you.

8 CHAIRPERSON JONES: Okay. Thank you for your
9 comments.

10 Ms. Laura Rubaccaba, you have three minutes to
11 speak, and come down at the mic at the -- on my left here,
12 and there's a clock right in front here that will alert
13 you as to your dime.

14 MS. RUBACCABA: Thank you, Board. My name is
15 Laura Rubaccaba and I'm a State employee. I'm here
16 talking today about the Item 6A, which was the benchmark
17 change.

18 We see here today that CalPERS is unwilling to
19 give us its corrupt relationship with private equity.
20 CalPERS former CEO Fred Buenrostro is now serving a four
21 and a half year prison sentence for taking bribes that
22 ultimately came from private equity firms.

23 Yet, unlike private defense contractors who are
24 far more irreplaceable, none of these crooked actors were
25 put in a penalty box and prohibited from doing business

1 with CalPERS. It isn't even clear whether the weak
2 sections they agreed to were ever enforced.

3 Private equity returns are going down, but risks
4 are not. Yet, we see CalPERS again making excuses for
5 private equity at the expense of CalPERS beneficiaries and
6 California taxpayers.

7 There's no justification for cutting your private
8 equity standards, by lowering the risk premium, by moving
9 to a more flattering stock index, and by using geometric
10 weighting. There's no reason except to make private
11 equity and staff performance look better than they are,
12 and that contradicts the advice of experts.

13 It suggests that CalPERS would rather fall
14 further behind on risk-adjusted performance, than do what
15 competent public pension funds are doing, and bring more
16 activities in-house to save fees and increase performance.

17 In your November 2015 private equity workshop,
18 Harvard Professor, and industry consultant, Josh Lerner
19 presented to the Board and staff in his written materials
20 where he questioned - and this is a direct quote -
21 "Whether a private equity program is worth it if it's only
22 getting average returns". He further suggested that to be
23 worthwhile, private equity programs must have
24 outperformance.

25 Yet, the benchmark change is an admission that

1 CalPERS expects to underperform in private equity and is
2 out to cover that up.

3 And what about the Board's action, or more
4 accurately inaction. Rob Feckner was President of this
5 Board when Buenrostro was taking bribes. Some Board
6 members, even when up for election, say nothing in these
7 meetings and always vote for and with staff.

8 If you want to restore the public's confidence in
9 CalPERS and public pension funds generally, you need to
10 hold the staff and yourselves to a higher standard of
11 conduct, reject this indefensible benchmark change.

12 Thank you.

13 CHAIRPERSON JONES: Thank you.

14 Okay. That concludes the open session for the
15 Investment Committee. And we will convene the closed
16 session Investment Committee at 1:45.

17 And then the anticipated asset liability
18 management workshop is still for 3:00 o'clock,
19 anticipated.

20 (Thereupon California Public Employees'
21 Retirement System, Investment Committee
22 meeting open session adjourned at 1:06 p.m.)

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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 18th day of November, 2017.

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