

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 18, 2019
9:00 A.M.

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

A P P E A R A N C E S

COMMITTEE MEMBERS:

Mr. Rob Feckner, Chairperson

Ms. Theresa Taylor, Vice Chairperson

Ms. Margaret Brown

Mr. Henry Jones

Ms. Fiona Ma, represented by Mr. Matthew Saha

Ms. Lisa Middleton

Mr. David Miller

Ms. Stacie Olivares

Ms. Eraina Ortega

Ms. Mona Pasquil Rogers

Mr. Jason Perez

Mr. Ramon Rubalcava

Ms. Betty Yee, also represented by Ms. Lynn Paquin

STAFF:

Ms. Marcie Frost, Chief Executive Officer

Mr. Matt Jacobs, General Counsel

Dr. Yu (Ben) Meng, Chief Investment Officer

Mr. Eric Baggesen, Managing Investment Director

Mr. Dan Bienvenue, Interim Chief Operating Investment
Officer

Ms. Sarah Corr, Investment Director

Ms. Kit Crocker, Investment Director

Ms. Caitlin Jensen, Committee Secretary

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

STAFF:

Mr. Paul Mouchakkaa, Managing Investment Director

Mr. Simiso Nzima, Investment Director

Ms. Christine Reese, Investment Director

Ms. Beth Richtman, Managing Investment Director

Mr. Greg Ruiz, Managing Investment Director

ALSO PRESENT:

Ms. Lisa Bacon, Meketa Investment Group

Mr. Ben Claire, Sunrise Movement

Mr. Al Darby, Retired Public Employees Association

Ms. Sandy Emerson, Fossil Free California

Ms. Christy Fields, Meketa Investment Group

Mr. Robert Girling, Emeritus Retired Faculty and Staff Association

Mr. David Glickman, Meketa Investment Group

Ms. Costanza Gonzalo, Sunrise Movement

Mr. Steve Hartt, Meketa Investment Group

Mr. Andrew Junkin, Wilshire Associates

Mr. Steve McCourt, Meketa Investment Group

Ms. Christine Nelson, Retiree

Ms. Lynne Nittler, Fossil Free California

Ms. Deborah Silvey, Fossil Free California

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

ALSO PRESENT:

Ms. Sara Theiss, Fossil Free California

Ms. Sheila Thorne, California Faculty Association, Fossil Free California

Mr. Tom Toth, Wilshire Associates

Ms. Vanessa Warheit, Fossil Free California

I N D E X

	PAGE
1. Call to Order and Roll Call	1
2. Approval of the November 18, 2019 Investment Committee Timed Agenda	2
3. Pledge of Allegiance	2
4. Executive Report – Chief Investment Officer Briefing – Yu (Ben) Meng	2
5. Action Consent Item – Yu (Ben) Meng	4
a. Approval of the September 16, 2019 Investment Committee Open Session Meeting Minutes	
6. Information Consent Items – Yu (Ben) Meng	4
a. Annual Calendar Review	
b. Draft Agenda for the December 16, 2019 Investment Committee Meeting	
c. Monthly Update – Performance and Risk	
d. Monthly Update – Investment Controls	
e. Disclosure of Placement Agent Fees and Material Violations	
7. Action Agenda Item – Independent Oversight	
a. Board Investment Consultants – Results of Board Investment Consultants Interviews and Intent to Award – Dan Bienvenue and Matt Flynn	4
8. Action Agenda Item – Policy & Delegation	
a. Public Asset Class Program Policy Revisions – Second Reading – Kit Crocker	7
9. Information Agenda Item – Program Reviews	
a. Real Assets Annual Program Review – Paul Mouchakkaa	10
b. Consultant Review of the Real Assets Program – Christy Fields, David Glickman, and Lisa Bacon, Meketa Investment Group and Andrew Junkin, Wilshire Associates	36
c. Private Equity Annual Program Review – Greg Ruiz and Sarah Corr	68
d. Consultant Review of the Private Equity Program – Steven Hartt and Judy Chambers, Meketa Investment Group	88

I N D E X C O N T I N U E D

	PAGE
10. Information Agenda Item - Policy & Delegation	
a. Private Asset Class Program Policy Revisions - First Reading - Kit Crocker	107
11. Information Agenda Item - Total Fund	
a. Affiliate Trust Fixed Income Benchmark Update - Eric Baggesen and Christine Reese	117
b. CalPERS Strategy on Sustainability - Anne Simpson, Beth Richtman, and Simiso Nzima	123
c. CalPERS for California Annual Update - Dan Bienvenue	170
12. Summary of Committee Direction - Yu (Ben) Meng	171
13. Public Comment	172
Adjournment	172
Reporter's Certificate	173

P R O C E E D I N G S

CHAIRPERSON FECKNER: Good morning, everyone.
We'd like to call the Investment Committee meeting to
order. First order of business will be to call the roll.

COMMITTEE SECRETARY JENSEN: Rob Feckner?

CHAIRPERSON FECKNER: Good morning.

COMMITTEE SECRETARY JENSEN: Theresa Taylor?

VICE CHAIRPERSON TAYLOR: Good morning.

COMMITTEE SECRETARY JENSEN: Margaret Brown?

COMMITTEE MEMBER BROWN: Here.

COMMITTEE SECRETARY JENSEN: Henry Jones?

CHAIRPERSON FECKNER: He'll be here.

COMMITTEE SECRETARY JENSEN: Fiona Ma represented
by Matt Saha?

ACTING COMMITTEE MEMBER SAHA: Here.

COMMITTEE SECRETARY JENSEN: Lisa Middleton?

COMMITTEE MEMBER MIDDLETON: Present.

COMMITTEE SECRETARY JENSEN: David Miller?

COMMITTEE MEMBER MILLER: Here.

COMMITTEE SECRETARY JENSEN: Stacie Olivares?

COMMITTEE MEMBER OLIVARES: Here.

COMMITTEE SECRETARY JENSEN: Eraina Ortega?

COMMITTEE MEMBER ORTEGA: Here.

COMMITTEE SECRETARY JENSEN: Jason Perez?

COMMITTEE MEMBER PEREZ: Here.

1 COMMITTEE SECRETARY JENSEN: Mona Pasquil Rogers?

2 CHAIRPERSON FECKNER: She'll be here.

3 COMMITTEE SECRETARY JENSEN: Ramon Rubalcava?

4 COMMITTEE MEMBER RUBALCAVA: Here.

5 COMMITTEE SECRETARY JENSEN: And Betty Yee?

6 COMMITTEE MEMBER YEE: Here.

7 CHAIRPERSON FECKNER: Thank you.

8 Item 2 is approval of the November 18th

9 Investment Committee times agenda.

10 VICE CHAIRPERSON TAYLOR: Move approval.

11 CHAIRPERSON FECKNER: It's been moved by Taylor.

12 COMMITTEE MEMBER BROWN: Second.

13 CHAIRPERSON FECKNER: Seconded by Brown.

14 Any discussion on the motion?

15 Seeing none.

16 All in favor say aye?

17 (Ayes.)

18 CHAIRPERSON FECKNER: Opposed, no?

19 Motion carries.

20 Item 3 will be the Pledge of Allegiance?

21 If you could all please rise and face the flag.

22 (Thereupon the Pledge of Allegiance was

23 Recited in unison.)

24 CHAIRPERSON FECKNER: Thank you.

25 Item 4, the Executive Report. Chief Investment

1 Officer briefing. Mr. Meng.

2 CHIEF INVESTMENT OFFICER MENG: Thank you, Mr.
3 Chair.

4 Good morning, members of the Investment
5 Committee. In addition to the standard reoccurring items,
6 this morning open session we have Item 7a, where we ask
7 you to approve the scoring of the subcommittee of the --
8 of the Board under selection of the independent Board
9 consultant.

10 And then on section -- on Item 8a, we'll bring
11 back to you the second reading of the investment policy
12 revision of public assets. If you recall the last time at
13 the Investment Committee, we brought the first reading to
14 you. In Item 9, we'll continue the annual program review.
15 And this month today, we'll cover the two private asset
16 classes namely private equity and real assets. If you
17 recall in August, we brought the annual program review of
18 TLPM, the total trust level fund function as well as OS,
19 opportunity -- Opportunistic Strategy Group to you for
20 review in August. And then last time in September, we
21 brought to you the two public assets, the public equity
22 and fixed income.

23 So item 9 today is a continuation of the annual
24 program review. In Item 10, we're going to have the first
25 reading of the program policy revision of private asset

1 classes. And then Item 11, we have three items. 11a is
2 affiliated trust fixed income benchmark update. 11b is
3 our update on sustainability investing, and then 11c is
4 our annual update CalPERS for California.

5 So with that, back to you, Mr. Chair.

6 CHAIRPERSON FECKNER: Thank you.

7 That brings to us Agenda Time 5, the action
8 consent item. It's the -- 5a, approval of the September
9 16th meeting minutes.

10 VICE CHAIRPERSON TAYLOR: Move approval.

11 CHAIRPERSON FECKNER: Moved by Taylor.

12 COMMITTEE MEMBER MILLER: Second.

13 CHAIRPERSON FECKNER: Seconded by Miller.

14 Any discussion on the motion?

15 Seeing none.

16 All in favor say aye?

17 (Ayes.)

18 CHAIRPERSON FECKNER: Opposed, no?

19 Motion carries.

20 Items 6, information consent items. Have no
21 requests to remove anything from that agenda item, we move
22 to Item 7, the independent oversight, the Board investment
23 consultants.

24 For that, I call on Mr. Bienvenue.

25 INTERIM CHIEF OPERATING INVESTMENT OFFICER

1 BIENVENUE: Thank you, Mr. Chair.

2 As you recall, a subcommittee was delegated from
3 the Investment Committee to work through the interviews
4 with the Board investment consultants. Recall that we're
5 looking for consultants in the category of general
6 pension, private equity, real estate, and then
7 infrastructure.

8 As a result of those interviews, we have a set of
9 scoring. And what we need from the Committee is to
10 approve the scores, and then create the Notice of Intent
11 to Award, such that -- subject to -- subject to successful
12 contract negotiations.

13 So in the category of general pension, the
14 leading score was Wilshire. They had 651 points for their
15 interview score, which brought them to a total of 1,001
16 points. And that's the highest scoring finalist in the
17 category of general pension.

18 In the category of private equity, Meketa scored
19 700 points at their interview score, which got them to a
20 total of 970 points. And they are the highest total in
21 the private equity consultant category.

22 For the real estate consultant, Meketa again
23 scored 700 points for their interview, and again were the
24 highest scorer overall in the category with 1,043 points.

25 And then in the category of infrastructure

1 consultant, Meketa again scored 700 points which brought
2 them to a total of 1,050 points. And again, they were the
3 highest scoring finalist. So the subcommittee's
4 recommendation is that the Investment Committee approve
5 the scores, and then subject to successful contract
6 negotiations, award Wilshire as the consultant for general
7 pension, and then Meketa for private equity, real estate,
8 and infrastructure.

9 And with that, I'll pause and turn it back to
10 you, Mr. Chair.

11 CHAIRPERSON FECKNER: Thank you.

12 So we need a motion to approve the subcommittee's
13 scores.

14 COMMITTEE MEMBER JONES: Move it.

15 CHAIRPERSON FECKNER: Moved by Jones.

16 COMMITTEE MEMBER MILLER: Second.

17 CHAIRPERSON FECKNER: Seconded by Miller.

18 Any discussion on the motion?

19 Seeing none.

20 All in favor say aye?

21 (Ayes.)

22 CHAIRPERSON FECKNER: Opposed, no?

23 Motion carries.

24 Anything else you need on that Mr. Bienvenue.

25 INTERIM CHIEF OPERATING INVESTMENT OFFICER

1 BIENVENUE: No, sir.

2 CHAIRPERSON FECKNER: Very good. Thank you.

3 Brings us to Agenda Item 8. 8a, public asset
4 class second reading of the policy and delegation.

5 Mr. Meng.

6 CHIEF INVESTMENT OFFICER MENG: Yes, I'll turn it
7 over to my colleague Kit.

8 INVESTMENT DIRECTOR CROCKER: Good morning. Kit
9 Crocker, CalPERS staff.

10 CHAIRPERSON FECKNER: Good morning.

11 INVESTMENT DIRECTOR CROCKER: Item 8a is the
12 second reading of staff's proposed changes to the program
13 policies for global equity and global fixed income arising
14 out of this year's annual review. These are primarily
15 intended to reflect the introduction of segments for these
16 asset classes.

17 As you'll recall, of course, for the global
18 equities portfolio, that would be the split into
19 cap-weighted and factor-weighted segments. And for global
20 fixed income, the segmentation into treasuries, spread,
21 and high yield.

22 And as typical with these annual routine updates,
23 we're also proposing some clean-up changes. Since this is
24 a second reading, we are seeking action from the Committee
25 at this time. So with that, I'll pause and see if we have

1 comment from the Board's consultants.

2 MR. TOTH: Good morning. Tom Toth with Wilshire
3 Associates. We provided our opinion letter on the initial
4 reading. There have been no substantive changes there.
5 We remain comfortable with the changes as proposed.

6 CHAIRPERSON FECKNER: Thank you.

7 Ms. Brown.

8 COMMITTEE MEMBER BROWN: Thank you, Ms. Crocker.
9 I know this is the second reading, and I like this,
10 because it gives us a chance to look at it again. So I
11 had a question about attachment 2, page four of nine. And
12 maybe this also could be for our consultant. And I'm
13 looking at table 1 where it looks like item two, we're
14 removing. And, by the way, thank you for putting the
15 marked up versions on here, so we can really see what
16 we're removing.

17 I'm -- I have a concern that we're removing - and
18 maybe we're not. Maybe it's somewhere else - that the
19 "Staff shall report concerns, problems, or material
20 changes and all violations of the policies". And it says,
21 "At the next Committee meeting or sooner, if deemed
22 necessary". So is that gone completely and does that mean
23 that the Board won't hear about problems or material
24 changes or is it somewhere else in the policy?

25 INVESTMENT DIRECTOR CROCKER: No, definitely not.

1 I'm glad you asked. Since staff's obligation to report
2 these policy violations is now stated generally for all
3 asset classes in the Total Fund Investment Policy, we're
4 making -- just making the conforming changes to the
5 program policies to remove that, because it's now
6 redundant with what's in the total fund.

7 COMMITTEE MEMBER BROWN: And so it's somewhere
8 else in --

9 INVESTMENT DIRECTOR CROCKER: It's in the Total
10 Fund Investment Policy, yes.

11 COMMITTEE MEMBER BROWN: Okay. Thank you.
12 All right. Thank you.

13 CHAIRPERSON FECKNER: All right. Thank you.
14 Seeing no other requests. What do we need here?
15 A motion before you?

16 INVESTMENT DIRECTOR CROCKER: Seeking action,
17 yes, please.

18 CHAIRPERSON FECKNER: Al right. Second reading.
19 So what's the pleasure of the Committee?

20 VICE CHAIRPERSON TAYLOR: I'll make a motion.

21 CHAIRPERSON FECKNER: Moved by Taylor.

22 COMMITTEE MEMBER MILLER: Second.

23 CHAIRPERSON FECKNER: Seconded by Miller.

24 Any discussion on the motion?

25 Seeing none.

1 All in favor say aye?

2 (Ayes.)

3 CHAIRPERSON FECKNER: Opposed, no?

4 Motion carries. Thank you.

5 Agenda Item 9, information agenda items, real
6 assets.

7 Mr. Meng.

8 CHIEF INVESTMENT OFFICER MENG: Yes. Thank you,
9 Mr. Chair. As I said, this item covers the annual program
10 review of the two private asset classes. We'll start with
11 private -- real assets first and then followed by private
12 equity. And as I noted, each one item is paired with the
13 consultant's review as well.

14 (Thereupon an overhead presentation was
15 presented as follows.)

16 CHIEF INVESTMENT OFFICER MENG: So with that, I
17 turn it over to my colleague Paul.

18 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Thank
19 you, Ben. Good morning.

20 CHAIRPERSON FECKNER: Good morning.

21 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: It's a
22 pleasure to present the annual program review for real
23 assets. I am Paul Mouchakkaa. And I'm joined by several
24 members of the real assets team behind me. I want to
25 emphasize that the deck was a total team effort.

1 beginning with performance. After two consecutive years
2 of strong absolute and relative performance, returns for
3 real assets slowed in fiscal year 18-19 to 3.7 percent.
4 However, given the illiquid nature of private real assets,
5 more emphasis should be placed on longer term numbers.

6 The real assets portfolio generated five year
7 performance of 7.5 percent lagging the benchmark, but
8 exceeding the actuarial rate of return, as well as the ALM
9 capital market assumptions. Underperformance was the
10 result of non-strategic legacy assets such as forestland
11 and non-core real estate.

12 What powered our performance, however, were the
13 core holdings in real estate and infrastructure. The core
14 assets in our portfolio generated a 9.8 percent return for
15 the same five-year period outperforming the benchmark.

16 Moving to our second P, portfolio. Over the past
17 five years, our core exposure has grown to 85 percent from
18 46 percent. This was nearly \$30 billion of investment
19 activity and portfolio growth. Our core program has grown
20 by approximately 20 billion through acquisition and value
21 change, while our non-core, or legacy, holdings were wound
22 down by approximately \$10 billion. This dollar movement
23 is significant in a market such as real assets.

24 Lastly, our infrastructure portfolio has now hit
25 approximately \$5 billion. And staff has put in place a

1 repeatable business model that will allow infrastructure
2 to continue to grow in a disciplined manner.

3 This leads us to our people and process. It's
4 these two ingredients after all that make things happen.
5 Our team is skilled and united, while operating in a well
6 organized and risk-aware process. The team's hard work
7 over these five years has had a cumulative effect of
8 bringing us to a much stronger position. Real assets has
9 successfully implemented a disciplined framework of
10 underwriting and a business model whereby separate
11 accounts, with strong governance, ESG integration, and
12 reduced fees now dominate the makeup of our portfolio.

13 Further, this business model has not inhibited us
14 in execution. CalPERS has a strong brand and reputation
15 in the market and access to best-in-place partners.

16 In conclusion, real assets recognizes performance
17 was not strong over the past year, but it has not deterred
18 our focus. It is important to maintain consistency, which
19 means pace deployment, disciplined underwriting, and sound
20 internal oversight.

21 Consistency and discipline allow real assets to
22 continue to provide its role to the total fund. We remain
23 committed to further aligning the portfolio with the
24 tried-and-true strategy that the Board approved that has
25 served the system well.

1 Thank you, and we welcome questions.

2 CHAIRPERSON FECKNER: Thank you.

3 Ms. Taylor.

4 VICE CHAIRPERSON TAYLOR: Yes. Thank you.

5 Thank you, Paul, for your report. It was very
6 good. I had one question on the forestland and none-core.
7 It sounds like you're winding that down. When do you
8 ex -- have an expectation that that won't be such a drag
9 on the portfolio?

10 CHIEF INVESTMENT OFFICER MENG: Good morning, Ms.
11 Taylor. That's a very good question. As we speak, we
12 have been working on exploring other ways to speed up the
13 transformation for our real asset portfolio to more core.
14 But due to the illiquidity nature of these assets, it has
15 been a slow moving process. But we plan to bring back to
16 this Committee in December with a plan how to speed up the
17 transformation process, so that we can put this behind us.
18 And then the staff, as well as our capital, can focus on
19 more area with higher potential.

20 VICE CHAIRPERSON TAYLOR: Thank you. And I have
21 an expectation that I think -- and this happened way
22 before I was on the Board, but forestland was purchased
23 thinking that we would be dealing in, I guess, timber,
24 right? That has not materialized and that's why the loss
25 or it's just not sell -- I'm not clear on that.

1 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: The
2 thesis around the forestland portfolio predates, I think,
3 virtually everyone sitting at this table.

4 VICE CHAIRPERSON TAYLOR: All of us.

5 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: But it
6 was part of the ILAC program, the inflation-linked
7 program, in 2007, I believe.

8 VICE CHAIRPERSON TAYLOR: Um-hmm.

9 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: And
10 then -- so these purchases were made at that point in time
11 with the notion that this would provide some inflation
12 protection. Now, the -- it's not a condemnation on the
13 timber industry. It's just our holding that we sold last
14 year was a very challenged investment for CalPERS.

15 VICE CHAIRPERSON TAYLOR: And then I assume the
16 one we're currently holding still is as well.

17 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: The one
18 that we currently hold has not performed nearly as badly
19 as that one. That one has --

20 VICE CHAIRPERSON TAYLOR: Okay. But it's still a
21 drag it looks like, as I was flipping through --

22 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: It has
23 been a drag compared to the benchmark, correct.

24 VICE CHAIRPERSON TAYLOR: Yeah.

25 Go ahead, Ben.

1 CHIEF INVESTMENT OFFICER MENG: Yeah. And
2 exactly as you just point out, a number of the we call the
3 legacy assets, the investments were made a long time ago,
4 some ten or some even 20 years ago.

5 VICE CHAIRPERSON TAYLOR: Got it.

6 Then my last comment is AB 547 has passed and
7 it's the janitorial bill that provides that our custodians
8 that are employed in our buildings are able to do sexual
9 harassment training. And I'm just hoping that the
10 folks -- our managers that we're dealing with are making
11 sure this is taking place. And I just wanted to talk
12 to -- have you talk about that.

13 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: We will
14 contact our core -- our separate account managers and find
15 that out for you.

16 VICE CHAIRPERSON TAYLOR: Yeah I'd appreciate it,
17 because it is now the law, so --

18 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Yes.

19 VICE CHAIRPERSON TAYLOR: -- so we have to make
20 sure that does happen.

21 Thank you.

22 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: You're
23 welcome.

24 CHAIRPERSON FECKNER: Thank you.

25 Mr. Jones.

1 COMMITTEE MEMBER JONES: Yeah. Thank you, Mr.
2 Chair. Yes, thank you for the report, Mr. Mouchakkaa.

3 The -- my comment goes to the infrastructure
4 presentation. And as you said that you will be utilizing
5 some discipline to see if we could increase our
6 allocations to infrastructure. And looking at the net
7 returns over the one, three, five, and ten year, they've
8 all been very positive, outperforming the benchmark, et
9 cetera.

10 But we also have been talking about doing more in
11 infrastructure for a long time now. So why haven't we
12 seen any progress to allocate more to infrastructure?
13 Because at least four or five years, we said we're going
14 to do more, because it was such a high returning asset for
15 us.

16 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: So
17 within four years, our infra program has grown from two
18 billion to five billion. So it's about a billion dollars
19 a year that we have been deploying or growing the
20 portfolio, mostly through acquisition and deployment.

21 It took us a couple of years to just establish
22 the business model, in terms of setting up -- finding the
23 managers, setting up the governance. In the past year, we
24 have now deployed into one open-ended fund and established
25 two separate account vehicles that our design for us to be

1 in a better position to deploy capital.

2 We are committed. Right now, our numbers state
3 that we're at 4.8 billion. However, what's actually in
4 the ground, but not called yet, would take us closer to
5 almost \$6 billion. So we have been deploying at roughly
6 about a billion dollars a year over the past four years.

7 CHIEF INVESTMENT OFFICER MENG: Mr. Jones, in
8 addition to what Paul just said, there are two other
9 reasons. One the infrastructure deal flow is lumpy. It
10 doesn't come all the time, but when it comes in large
11 size. So we need to get our processes ready internally,
12 which we are.

13 Then the other reason is that there have been
14 increasing demand for core infrastructure assets and our
15 underwriting standard, our return target a little bit
16 higher than other investors. So it make us less -- in a
17 way, less -- we are less price competitive in the
18 marketplace.

19 But given that challenge, despite of that
20 challenges, the team continues to look for ways, you know,
21 to utilize or take advantage of our scale and brand name,
22 so that we can invest in deploying more capital into core
23 infrastructure projects.

24 COMMITTEE MEMBER JONES: Okay. Thank you. And
25 so do we have a specific target as we do with private

1 equity. We indicated that we need to deploy \$10 billion a
2 year going forward. So do we have a similar target for
3 infrastructure like that?

4 CHIEF INVESTMENT OFFICER MENG: For
5 infrastructure, we do not have a specific target for
6 infrastructure, but infrastructure is part of the real
7 assets now. And real assets target is 13 percent,
8 currently about 11 percent. So similar to private equity,
9 we have been struggling to get to our target. Private
10 equity target is eight percent. And currently, we stand
11 at 6.9 percent.

12 So we have -- we realize the benefit of private
13 assets to our portfolio. But at the same time, we also
14 realize the challenges or constraints we face in today's
15 market environment.

16 COMMITTEE MEMBER JONES: Okay. Thank you. I
17 appreciate the comments. And it's just that it's such a
18 high performing asset. And I'm -- why can't we get more
19 money. It's kind of like private equity. We need to get
20 more money out there, because that's where we're going to
21 get the returns. We need to pay our benefits. So thank
22 you for your comments.

23 CHAIRPERSON FECKNER: Thank you, Ms. Brown.

24 COMMITTEE MEMBER BROWN: Thank you.

25 Mr. Mouchakkaa, can I call your attention to

1 attachment 1, page six of 26. And I just had a question
2 about these -- these valuations are how we come up with
3 these net returns. So when we look at real assets,
4 they're at 3.7 and they underperformed. But I want to go
5 all the way down to forestland, which is negative 10.7
6 percent.

7 So -- and the asset value is 1.3 billion. So
8 what we don't see here is what it was -- what the asset
9 value was last year or what changes occurred. Do we -- do
10 you prepare those tables, and can the Board see those, to
11 see like if we purchase -- let's just say for -- I know we
12 didn't purchase any. But if we sold any forestland, what
13 the changes in valuations were, which caused this negative
14 almost 11 percent, or is it just based on valuations.
15 Basically, you get new valuation that the land has dropped
16 or the value has dropped ten percent and that goes in
17 there.

18 And my concern is, is that if the managers are
19 doing the valuations, how are we checking that those
20 valuations are real? Is there a third-party -- is there a
21 third-party audit of those or is there a random audit of
22 those valuations? Just concern, because I think we pay a
23 lot of our managers based on assets under management.

24 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Um-hmm.

25 COMMITTEE MEMBER BROWN: And so it would be nice

1 to know that we're just not relying on their valuation,
2 that there's some third party. So I know there's a lot of
3 questions in there, but just curious how you get to that
4 table?

5 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: So with
6 respect to your first part of your question, on
7 forestland, we sold our largest single holding in
8 forestland last year. So our net asset value, I believe,
9 was closer to 1.8 or 1.9 billion, the last time I
10 presented the annual program review. I can -- we can
11 confirm the precise number, but it's closer to \$2 billion.
12 And therefore, what's shown as the change in value was
13 really mostly the sale of that asset that caused the
14 negative 11 percent return and caused the drop in value.

15 Now, if I can call your attention, Ms. Brown, to
16 page -- page 18. On the far left paragraph, this shows
17 the proportion of our holdings that are in separate
18 accounts, whereby we have some control features. There --
19 today, we send it a little over 90 percent of our
20 portfolio is in separate accounts. Virtually all of that
21 90 percent we appraise through our internal CalPERS
22 Valuation Policy.

23 The other nine percent that's in these commingled
24 fund type of vehicles, they tend to be valued the way --
25 based on a manager with an audit firm.

1 COMMITTEE MEMBER BROWN: Great. So what about
2 tracking, almost like a general ledger, where you show the
3 ins and outs, do you -- how is that tracked in your office
4 and at what point can maybe the Board take a look that, or
5 I would like to take a look at that, sort of the purchases
6 and then the declines in value?

7 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: So in
8 terms of how we track it --

9 COMMITTEE MEMBER BROWN: Um-hmm.

10 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: -- we
11 look at -- there's a schedule that I -- we look at every
12 quarter, that is the cash flow, the contributions and
13 distributions, so plus and minus, and then whatever would
14 be the income plus the appreciate -- we hope for the plus
15 of appreciation.

16 COMMITTEE MEMBER BROWN: Right, appreciation.

17 (Laughter.)

18 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: And
19 then that gets you to your ending. And we look at that
20 movement or conti -- we call it our continue --
21 continuation schedule every quarter in terms of how our --
22 the flows and the valuations move in our portfolio.

23 COMMITTEE MEMBER BROWN: I'm not sure if anybody
24 else would like to take peek, but I would just like to --
25 just to see one to see how you come up with that final

1 number, that would be great. Thank you.

2 CHAIRPERSON FECKNER: Thank you.

3 Ms. Olivares.

4 COMMITTEE MEMBER OLIVARES: Thank you for this
5 presentation. It's very thorough. I had a couple
6 questions about the one-year versus the three-year
7 performance on page 15. So it looks like the one-year
8 benchmark was 6.5 percent and the net return for CalPERS
9 was 3.7 percent. But then I look at the three-year and it
10 seems like the performance was much better with the
11 benchmark being 6.8 percent and CalPERS net return 6.4
12 percent. Could you please walk me through what happened
13 between the three-year and the one-year?

14 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Sure.
15 The two previous years our performance was over the
16 benchmark. We had 7.4 percent two years ago and we had
17 eight percent last year. Our performance was slowed by
18 two major factors this year. One was the sale of that
19 timber asset that we brought up earlier. That pulled down
20 performance quite a bit, but that was one that we
21 expected.

22 The second is a point that Wilshire has actually
23 brought up in -- last month, as well as Meketa, which were
24 our retail portfolio took some valuation write-downs and
25 we did that ahead of the benchmark. And I believe

1 Wilshire pointed out last -- not last month, but August,
2 in the August IC, that we were more or less ahead of the
3 curve.

4 We now have two quarters that have been booked in
5 our benchmark. And that benchmark has begun to take its
6 write-downs in the retail arena. It did not take them
7 last year. And so therefore, they're more or less
8 catching down to where we are and our retail has stayed
9 relatively flat for this fiscal year. So that last fiscal
10 year we took the timber sale, and we took valuation
11 write-downs in our retail that caused us to have a much
12 lower return. Whereas, the benchmark for that -- up until
13 the end of our fiscal year had not recognized nearly the
14 amount of hit on retail that we did.

15 COMMITTEE MEMBER OLIVARES: And what are we
16 projecting for our performance this year versus the
17 benchmark?

18 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: We
19 don't --

20 CHIEF INVESTMENT OFFICER MENG: We don't really
21 have a projection. We don't project our year-by-year
22 return. But if you were referring to capital market
23 assumptions, every four years we do formal capital market
24 assumptions. And then in between when there's new
25 information coming, we try to update our capital market

1 assumptions at the midpoint. But we do not -- for each
2 asset class, we do not do annual return projection.

3 COMMITTEE MEMBER OLIVARES: Oh. Okay. That's
4 different.

5 I also had a question about governance. So I saw
6 that enhanced governance has increased to 91 percent. Is
7 that with the different ESG factors that were included in
8 here?

9 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Which
10 slide are you on?

11 COMMITTEE MEMBER OLIVARES: I believe that --
12 wasn't that page -- it might be page six.

13 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Page
14 six. So our separate account, Ms. Olivares --

15 COMMITTEE MEMBER OLIVARES: Sorry, page 12.

16 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Page
17 12. All right. So our separate account model that we run
18 in real estate, and now in infrastructure that we've
19 implemented a few of these, there's a few -- beyond the
20 control features we have around the pace of investment,
21 the capital, and the leverage, we also have implemented
22 some of the important ESG initiatives through that
23 governance model. One is our Energy Optimization Program
24 with -- within our Real Estate Program, and then our ESG
25 matrix, which is a framework that all of our separate

1 account managers must put together for us to assess
2 various ESG type risks around maybe climate, or water, or
3 social issues that may be pertinent to that particular
4 asset. We've integrated that through that separate
5 account model, where we have the ability to do that.

6 COMMITTEE MEMBER OLIVARES: Thank you. And then
7 I see that there are 26 external managers. Do we
8 anticipate that there will be so many going forward or are
9 we going to try to narrow down the manager pool at some
10 point?

11 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: So
12 roughly four years ago, I got here and we had 68 internal
13 managers around -- 68 managers within real assets. And
14 that number has been wound down considerably through a lot
15 of this, the ten billion that I reference in terms of the
16 sale of non-strategic legacy assets. So it's been
17 narrowed down quite a bit.

18 We don't anticipate it to really move
19 dramatically down or dramatically up from that number at
20 this point in time?

21 COMMITTEE MEMBER OLIVARES: Thank you.

22 CHAIRPERSON FECKNER: Thank you.

23 Ms. Yee.

24 COMMITTEE MEMBER YEE: Thank you, Mr. Chairman.
25 And I have some ESG-related questions as well, if I may.

1 I know the real assets carbon footprint portfolio will be
2 completed I think within this next fiscal year. And I was
3 curious as to whether the findings of that effort will be
4 brought before the Committee at some point?

5 And the reason for the question is just to
6 understand how that might impact the -- I used impact.
7 That's a very -- how that might affect the investment
8 strategy and things like, you know, change in geographic
9 preferences and areas of focus.

10 INTERIM CHIEF OPERATING INVESTMENT OFFICER

11 BIENVENUE: It's linked in our climate risk report, but
12 we'll ask Beth to take on the question more directly.

13 COMMITTEE MEMBER YEE: Great. Thank you.

14 MANAGING INVESTMENT DIRECTOR RICHTMAN: Good
15 morning. Beth Richtman, Sustainable Investments.

16 The Sustainable Investments team has worked very
17 closely with the Real Assets Program to complete the
18 carbon footprint on the timeline I guess set forth by our
19 strategic plan. And so we do have findings on this. And
20 I will say that the work that we put in place over the
21 past several years within the Real Assets Program using
22 GRESB as a tool, and working with all the managers using
23 this importance governance structure that Paul talked
24 about, has been instrumental in us getting the level of
25 transparency and reporting that we needed to actually do

1 the analysis.

2 COMMITTEE MEMBER YEE: Okay.

3 MANAGING INVESTMENT DIRECTOR RICHTMAN: In terms
4 of the findings, I believe that they will be put as part
5 of the overall climate risk report that we will be
6 delivering at some point probably in early 2020.

7 COMMITTEE MEMBER YEE: Okay. Great. That's
8 fine. And maybe, Beth, while you're hear, I have a
9 question about forestland and really appreciate the staff
10 refining this area of the portfolio. Are there larger
11 discussions with respect to any opportunities for
12 forestland going forward as a potential for providing
13 carbon offsets?

14 MANAGING INVESTMENT DIRECTOR RICHTMAN: So I will
15 say that that is an area of research. I think, you know,
16 earlier this year, the Board approved new policy language
17 in our governance and sustainability principles that
18 talked about the importance of having a carbon pricing
19 framework that incentivizes that type of natural ecosystem
20 carbon sinks.

21 Currently, the pricing in those frameworks and
22 their focus on ecosystem services to -- including carbon
23 sinks provided by natural ecosystems is not at a level
24 where we see that as a -- as a place where we could deploy
25 significantly. But that is an area that we're watching.

1 And it's something that we look forward to policymakers
2 developing the right policies around to create the right
3 incentives for investors like us to be able to find those
4 opportunities.

5 COMMITTEE MEMBER YEE: Okay. So that's going to
6 be tied very much to the pricing and valuation policy
7 work. Okay. Got it. Thank you.

8 CHAIRPERSON FECKNER: Thank you.

9 Ms. Middleton.

10 COMMITTEE MEMBER MIDDLETON: Okay. Thank you,
11 Mr. Chair. I'd like to go a little bit more broadly and
12 follow-up on some of the questions that Mr. Jones was
13 asking. In terms of our broad allocation to real assets,
14 are you satisfied with where we are at today?

15 CHIEF INVESTMENT OFFICER MENG: You mean
16 satisfied in terms of the allocation target?

17 COMMITTEE MEMBER MIDDLETON: The total amount
18 that we have in real assets?

19 CHIEF INVESTMENT OFFICER MENG: So the short
20 answer is no, we're not satisfied. But at the same time,
21 we have to acknowledge the challenges and constraints we
22 face. And with that, again under Paul's leadership and
23 then Investment Management Committee, the senior group, we
24 are fully committed to deploying as much capital as we can
25 prudently to private equity and real estate.

1 COMMITTEE MEMBER MIDDLETON: So this --

2 INTERIM CHIEF OPERATING INVESTMENT OFFICER

3 BIENVENUE: I'm sorry. Can I just make one comment also.
4 Ben, used the word "prudently" and I think it's worth
5 commenting on that. And this speaks to Mr. Jones question
6 also. It is -- you know, infrastructure is one of our
7 highest performing asset classes, but it's because we've
8 kept high underwriting standards. We could certainly
9 deploy more, but that would mean reducing our underwriting
10 standards, which could potentially mean reducing the
11 returns. So there's this -- there's this balance between
12 getting enough out, but getting enough out with the
13 expected returns and the needed returns.

14 COMMITTEE MEMBER MIDDLETON: So projecting ahead,
15 how long do you anticipate it will be before we have
16 increased the value of real assets using the kind of
17 prudent underwriting that we're approaching today, and
18 again, in very broad terms?

19 CHIEF INVESTMENT OFFICER MENG: In infrastructure
20 assets, again, as I said, it comes in lumpy. So we're
21 trying to find out ways to take advantage of our
22 strengths, which is our size. So which also means that
23 when a larger size deal comes to our attention, we need to
24 get ready -- be prepared to be comfortable with some
25 amount of concentration risk in the portfolio. And as we

1 speak, you know, Paul brought to my attention there's a
2 potential large deal the team is currently looking on can
3 be in orders -- I want to say could be in orders of
4 billions.

5 And one of the questions, you know, when Paul
6 first talked to me, Paul asked me, you know, are we --
7 will we be ready, you know, with these kind of
8 concentration risks? And I encouraged Paul and the team
9 to look into it. The more we know, then the more -- the
10 better we can answer the question are we comfortable or
11 not.

12 COMMITTEE MEMBER MIDDLETON: Okay. Thank you.

13 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: And one
14 point, if I may add, Ms. Middleton, is one of the
15 strategic cornerstones of the real assets portfolio is
16 that we hold the assets. They're meant to be held for a
17 long period of time. And so it takes that extra -- that
18 extra layer of really thinking through the asset for the
19 long term knowing that our portfolio won't be churning
20 much, when we get it to where it needs to be.

21 COMMITTEE MEMBER MIDDLETON: Okay. Thank you.

22 CHAIRPERSON FECKNER: Thank you.

23 Ms. Brown.

24 COMMITTEE MEMBER BROWN: Hi. I want to biggy
25 back on something Ms. Olivares asked or in your answer to

1 her, Mr. Mouchakkaa. And that is you talked about the
2 reason why we had -- why we lagged the benchmarks in one
3 and three years is one of the things was we had
4 write-downs in valuations. And I sort of have a general
5 question about that and maybe this also goes to Mr. Meng.

6 And that is at what point is the Board informed
7 of those write-downs in valuations, whether it be in real
8 estate or any other asset we hold, including private
9 equity. When we have write-downs in valuation, when is
10 the Board informed or is the board informed?

11 CHIEF INVESTMENT OFFICER MENG: I would like to
12 say the Board is always informed. Every time we put out a
13 performance report, either by monthly, quarterly, or
14 annual. So all the performance numbers, when we receive
15 it, we share with the Committee with no constraints or no
16 holding back, if that's what you are asking for. So the
17 Board is always informed.

18 COMMITTEE MEMBER BROWN: And maybe I shouldn't
19 say informed. If you give us a big table that shows the
20 value of the asset -- like in the CAFR, it shows the value
21 of the asset now and the value of the asset later. But we
22 don't know if that value has changed, because whether you
23 sold something or is it just a write-down. So I'm
24 more cur -- I'm more curious or concerned about if we have
25 a large write-down in a major asset that the Board be

1 informed, whether it's in open or in closed session that
2 we know.

3 I don't know what the dollar value is, but if
4 it's a major write-down, we would like to know, like some
5 property holding or something like that. That's my
6 preference that it be discussed, not just put in a table
7 with, you know, thousands of other numbers.

8 CHIEF INVESTMENT OFFICER MENG: I would think --
9 as we move to the Insight Tool, I would think there would
10 be ability for you electronically you can show it by the
11 amount of write-down. We can also think of other ways.
12 You know, depending on what's the right threshold the
13 Committee deems appropriate, we can highlight, you know --

14 COMMITTEE MEMBER BROWN: Yeah. And I'm not just
15 talking about like say if real estate drops ten percent
16 and then, of course, it all drops. But I'm talking about
17 things that are exceptions or concerns that the Board -- I
18 would want to be made aware of.

19 Thank you.

20 CHAIRPERSON FECKNER: Thank you.

21 Mr. Jones.

22 COMMITTEE MEMBER JONES: Yeah. Thank you Mr.
23 Chair. Yeah, piggybacking again on your response to Ms.
24 Middleton's question about more detailed underwriting is
25 causing. And maybe this is going to be addressed in the

1 consultant's report, because Meketa does talk about some
2 threats to this asset class, such as downturn in the
3 market growth, proliferation of new bank lenders, less
4 regulation, high leverage. Are these the type of
5 additional underwriting provision you're referring to or
6 should we just wait till Meketa does its report?

7 CHIEF EXECUTIVE OFFICER FROST: Thank you, Mr.
8 Jones. It think we -- to talk further in detail about our
9 underwriting stands, we would need to do that in closed
10 session.

11 COMMITTEE MEMBER JONES: Okay. Okay. Thank you.
12 I take the question back.

13 (Laughter.)

14 CHAIRPERSON FECKNER: Thank you.

15 Seeing no other requests, anything else from you,
16 Mr. Mouchakkaa, on this item?

17 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: No,
18 thank you.

19 CHAIRPERSON FECKNER: All right. Before we go to
20 the consultants, I do have a request from the public, Al
21 Darby. Please come forward. The microphone will be
22 turned on for you. You have up to three minutes to make
23 your comment.

24 MR. DARBY: Good morning. Al Darby, President,
25 RPEA. I want to preface my remarks this morning with the

1 statement that this is above my pay grade. So I've asked
2 a consultant -- an expert consultant to give us some help
3 on this subject. That person, of course, is J.J. Jelincic
4 the only consultant that's available to us who served on
5 this Board for 20 years and has intimate knowledge of all
6 of these policies.

7 With that, I want to say that the Real Assets
8 Program within the program being presented, it appears
9 that the -- there's a relocation of limits to PRP, in
10 other words, more staff responsibility and no Board review
11 is required.

12 The second substantive change is the proposed
13 deletion of leverage limits from the RA Program Policy,
14 which were previously relocated to newly created leverage
15 policy related procedures, PRP, to align with recently
16 approved changes centralizing leverage management for the
17 public assets class, in the total fund level and
18 relocating program specific constraints to PRP. The same
19 change is true for PE.

20 This language is being removed. This moves
21 leverage out of the policy a Board control and PRP will
22 take over. So this proposal suggests that no more
23 oversight of the Board in the matter of leverage.

24 Thank you.

25 CHAIRPERSON FECKNER: Thank you.

1 Next is the Board consultant's review, 9b.

2 MS. FIELDS: Good morning.

3 CHAIRPERSON FECKNER: Good morning.

4 MS. FIELDS: Christy Fields, Meketa Investment
5 Group. I'd like to first thank the Committee for
6 retaining us to be your real estate consultant going
7 forward. Thank you very much. It's been our pleasure and
8 honor to be your real estate consultant for the last ten
9 years.

10 It's also nice to be here presenting the annual
11 program review, which we have been doing for the last ten
12 years. It's gotten progressively easier story to tell.
13 And that's a credit to Paul and his team and all the work
14 that they have done and continue to do.

15 David and I are going to focus our comments
16 primarily on the SWOT section of the letter that we
17 prepared and then we'll take questions after that.

18 But as Paul mentioned, the portfolio is
19 accomplishing what it is set out to do, providing current
20 income with which you can pay your beneficiaries,
21 important diversification against your growth and equity
22 risk, and protection against inflation.

23 Amongst the strengths that we've highlighted, I'd
24 like to call out particularly the long-term strategy,
25 which has increasingly well integrated with the overall

1 strategic direction of the fund. There is increasing
2 congruency between what the Real Assets Program is
3 delivering to the fund through the underlying portfolio
4 composition.

5 I'd also like to call out the diversity of the
6 group of the investment team and the strong leadership.
7 Paul has been here almost five years now and he provides a
8 very measured, intellectually honest, and disciplined
9 approach to investing. He's a strong mentor to his team.
10 And he's provided really good research discipline.

11 The improvement in the research produced by the
12 group has been truly impressive over the last few years.
13 And I think that informs the performance of the real
14 estate portfolio.

15 The last of the strengths I'll call out at this
16 point is the scale. You all have this in spades. And it
17 serves the real assets portfolio in particular, because of
18 the business model that it allows, which is these large,
19 fee-efficient, scalable separate accounts.

20 David.

21 MR. GLICKMAN: Thank you.

22 David Glickman

23 CHAIRPERSON FECKNER: Microphone.

24 Thank you.

25 MR. GLICKMAN: Thank you. David Glickman, Meketa

1 Investment Group. I'm going to spend one more minute on a
2 strength, which riffing off of Ben's four Ps, I'm going to
3 call the four Cs, which are aren't about buying diamonds
4 today, but rather are collegiality, cooperation,
5 cohesiveness, and consistency. One of the goals of the
6 annual program review is to report what has happened. And
7 another goal, at least from our point of view, is to try
8 to look forward. And there will be a downturn in real
9 estate performance coming forward. We're not sure when or
10 how much, but there will be one.

11 And an asset that you have that isn't reflected
12 on your balance sheet, but which is an important asset
13 that will serve you well in those times is your staff.
14 And the fact that they have been together and are
15 consistent in their approach in executing your beliefs and
16 your policies will give you protection when the downturn
17 comes. That's not so easily visible right now, but we
18 think looking forward it's useful for you to know.

19 Turning to some of the things that are challenges
20 and weaknesses. No offense, Christy, but scale is one of
21 those too. The ability to be nimble in specific real
22 estate transactions is not part of your everyday program,
23 since the dollar amounts that you need to invest to be
24 effective are not small amounts, and there are lots of
25 competition for the properties that you seek. So in that

1 case, scale works a little bit against you.

2 You are a first call when deals of size come to
3 market and that's an advantage. But the ability to do
4 lots of deals fast is not something that is part of this
5 program.

6 Let me talk about another more general weakness,
7 which was alluded to in some of the comments from the
8 Board members about the infrastructure implementation.
9 Similarly, in real estate, there are an awful lot of
10 investors who are chasing the same deals that you are.

11 And to staff's credit, they have maintained the
12 discipline around their return hurdles and not chased
13 deals. And we've noticed that for every year that we've
14 come to report to you for the last seven years and we
15 think that that's a strength.

16 There are two markets at which to look, one is
17 the space markets of the individual real estate
18 properties, which are pretty close to equilibrium. The
19 difference between the demand for space and the supply of
20 new space being created is at a pretty reasonable
21 comparison point.

22 But the other market, which is capital markets,
23 there are imbalances. There is more capital chasing
24 transactions than there are transactions of merit. And so
25 that's going to affect the deployment and the pacing to

1 some degree. And over the long term, that should settle,
2 but in the shorter term, that may be an area of some
3 difficulty.

4 MS. FIELDS: With respect to opportunities, I
5 think CalPERS sits in a really interesting space in the
6 middle, in the nexus, of some of these that we've
7 highlighted here, including the changing way that people
8 are interacting with their built environment,
9 sustainability efforts, and data analytics in portfolio
10 management. You have a very large diversified portfolio.
11 And so you have, in essence, a terrific beta lab for
12 understanding how all of these dynamic forces will
13 interact to impact real estate. And your business model
14 allows you to be pretty close to your real estate through
15 these separate account relationships and to have the
16 governance needed to -- to be able to kind of peer around
17 the next corner and understand how your real estate
18 portfolio is going to be impacted by some of these
19 dynamics.

20 So I think there's a lot of opportunity here
21 ahead of you for CalPERS real estate.

22 MR. GLICKMAN: And last, we'll talk about a
23 couple of threats. Not all threats come true, but
24 prudence suggests that you prepare for them in any event.
25 The one that gets most of the headlines right now is

1 changes in space use, or what's referred to as disruption.
2 And this is an area that you are exposed to. You are less
3 exposed than some other real estate investors in part
4 because you retain good control and governance over your
5 assets, you can make changes directly, if you find that
6 that's important, and you are less exposed than some other
7 investors because the quality of your portfolio, the
8 locations, the assets that you own, is of high quality,
9 and therefore will continue to be attractive to the
10 largest percentage of prospective users.

11 At the same time, as was described in the
12 write-down of the retail properties, people are changing
13 how they use their real estate. Your property managers,
14 your outside investment managers have low enough leverage
15 in the separate accounts and access to capital, so they
16 will be able to respond and hopefully anticipate some of
17 these changes in what we think is a protective way,
18 compared to some other real estate owners who are
19 leveraged too high or don't have access to additional
20 capital to keep making the improvements and changing the
21 character of the properties to continue to attract tenants
22 and consumers.

23 The things that we watch closely are new supply
24 that isn't already leased, so spec building, and the
25 willingness of construction lenders to advance higher and

1 higher percentages of the cost of new construction.

2 So far, those two areas are moderate and we don't
3 see an excess of new speculative building in most markets
4 in most property types domestically. At the same time, as
5 new lenders come into the arena, as banks have
6 restrictions lifted from them and they begin to look at
7 construction lending as a highly margined part of their
8 business model, you have to be careful markets don't get
9 ahead of themselves in delivering new supply.

10 With that, we will ask the Committee if they have
11 any questions for us, which we would like to try to
12 answer.

13 Thank you.

14 CHAIRPERSON FECKNER: Thank you.

15 Mr. Jones.

16 COMMITTEE MEMBER JONES: Yeah. Thank you, Mr.
17 Chair. Yeah, thank you for the presentation. And
18 recognizing that our real assets is a long-term
19 opportunity that we're looking at 40, 50 years out in the
20 future, I was at a meeting last week and there was an
21 observation of AI implications in hotel, where it was all
22 face recognition. There was -- you know, you check in,
23 you order food, you turn on the lights, everything was
24 done by -- through an AI component.

25 So I wanted to get your views on where do you see

1 the AI -- what is the -- what do you see the implications
2 of our going forward in real estate, infrastructure in
3 terms of its -- in terms of AI's impact on our portfolio
4 going forward?

5 MR. GLICKMAN: Well, I'll try, not being an
6 expert on AI. There are -- it is said that real estate
7 specifically has been a little bit late to the party in
8 terms of modernizing the interface between the customer
9 and the landlord.

10 And so there is a lot of attention in an area
11 that's called prop tech, where the disciplines of
12 technology and real assets are trying to be merged. In
13 order to be effective, it's going to require capital. And
14 there will be false starts. But I think, in general, your
15 managers are well positioned, because the balance sheets
16 of the individual real estate partnerships that you've
17 created have capacity to make incremental investments not
18 only in new physical space, but in technological advances
19 as well.

20 We know, for example, that the shopping center --
21 the regional mall owners with whom you are partners, are
22 spending tens of millions of dollars a year to try to
23 continue to make those malls attractive for people to show
24 up and to integrate point-of-sales in the malls with
25 point-of-sales on the internet.

1 And so we follow those trends and we think that
2 as the best and the brightest ideas emerge, which will
3 cost money, your managers are going to be able to deploy
4 them and implement them in your properties.

5 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: If I
6 may add. Thank you, David. One of the disciplines that
7 we have in our business model is, what we call, the AIP,
8 or annual investment plan. It has two of your letters,
9 but it doesn't mean artificial intelligence. But the
10 annual investment plan where each of our separate account
11 relationships come and meet with all of our -- all of our
12 staff to propose their plan for the next year.

13 In this discipline, we are talking about the
14 exact trends within each of the specific area, whether it
15 be retail, or office, or apartment, so that we can evolve
16 our portfolio, either through the sale of properties we
17 don't believe will be positioned well for the future or
18 reinvesting in properties that we believe maybe just need
19 some reinvestment, or reaffirming the properties that we
20 believe should stay, and lastly, investing in new
21 properties for the future.

22 So that discipline of us having these annual
23 plans come through our shop within real assets really give
24 us the ability to evolve the portfolio in a very
25 disciplined way. And I always like to say these trends

1 you never want to overreact, but you also don't want to
2 underreact. And we try to find that balance of being very
3 measured at the same time and consistent, but methodically
4 adapting to a trend or a change.

5 COMMITTEE MEMBER JONES: Okay. Thank you very
6 much. Appreciate that.

7 CHAIRPERSON FECKNER: Thank you.

8 Ms. Taylor.

9 VICE CHAIRPERSON TAYLOR: Yes. Thank you. Thank
10 you, Mr. Glickman and Christy. I'm sorry.

11 I had a couple of -- actually, I had one question
12 to start with. You's mentioned earlier about space
13 disruption. So what constitutes space disruption -- new
14 space space disruption?

15 MR. GLICKMAN: So the most visible example of
16 space disruption is WeWork, where the traditional office
17 model was supplemented by a communal office model. And
18 there have been disruptions in industrial warehouse, where
19 owning a distribution facility close to the last mile of
20 delivery becomes much more critical than being located at
21 the intersection of two interstates.

22 The office and the industrial are supplemented by
23 retail disruption, where you buy things from Amazon rather
24 than going to the Department store. So those are
25 examples. The malls are another high profile example of

1 having dramatic changes in the use of the square footage,
2 where the old department store is now a community college.
3 So those would be some examples.

4 VICE CHAIRPERSON TAYLOR: Okay. Great. Thank
5 you. I -- I was also a little concerned in your threats
6 outline of, "There's a proliferation of non-bank lenders
7 and less regulation". I understand that our underwriting
8 is much better than that and that we're not getting
9 involved in that, but -- and then "higher leverage and
10 speculative supply". And you did mention that, but what
11 kind of impact is that going to have in the future, even
12 though I -- I suspect that we won't have any of those in
13 our portfolio, but it may affect --

14 MR. GLICKMAN: So here's how I think it might
15 affect it. There's two ways. One is if new supply is
16 delivered and not taken up, not leased ahead of time, then
17 that's going to potentially depress market rents for that
18 subsector. And when the evaluation of your assets occurs
19 each quarter and each year, the lower growth rate for
20 rents over the next projected period is going to diminish
21 the value of your existing asset.

22 The second way that it's going to potentially
23 hurt is if a lot of new space is delivered, then the
24 competition for your tenants is going to increase. And
25 the new empty space is going to try to make a deal to take

1 your tenants and fill up their buildings.

2 So the prospect of new supply being created
3 speculatively is something that might indirectly affect
4 your assets when the leases in your assets roll to mature
5 and have to be released.

6 VICE CHAIRPERSON TAYLOR: Doesn't that -- I guess
7 when I think about that though, don't we have a shortage
8 of office space and retail -- well, not retail space, but
9 office space, in general, in the bigger cities right now.
10 So I don't -- you know, I'm not speaking just in
11 Sacramento.

12 MR. GLICKMAN: So your -- your portfolio is very
13 well occupied. Your commercial assets, not counting
14 apartments, but -- are somewhere north of 90 percent.

15 VICE CHAIRPERSON TAYLOR: Okay.

16 MR. GLICKMAN: And the average lease term on the
17 office leases and the other retail and industrial leases
18 is somewhere around six years on average. Apartments, of
19 course, are leased either for six months or a year, so
20 that's a little different.

21 You are somewhat insulated. Different submarkets
22 have different supply and demand characteristics, so that
23 the vacancy rates in some submarkets are troubling. There
24 have been a lot of new apartments created in Phoenix,
25 Arizona over the last years. And so rental growth in

1 Phoenix apartments hasn't been terrific for the last
2 couple of years. That will subside over time, but there
3 is the possibility that the new supply will make it
4 difficult.

5 Most markets are close to equilibrium.
6 Nationally, office vacancy is at a relatively low rate
7 from a historic basis. Retail has problems. Apartments
8 are at a high occupancy rate, low vacancy rate. And
9 industrial seems to be at the lowest vacancy rate right
10 now. So it's not a threat right now, but opening the
11 spigots to new construction could change those dynamics
12 over a 24- or 36-month period.

13 VICE CHAIRPERSON TAYLOR: Okay. Did -- Ms.
14 Fields, did you have -- it looked like --

15 MS. FIELDS: (Shakes head.)

16 VICE CHAIRPERSON TAYLOR: Okay. Thank you.

17 CHAIRPERSON FECKNER: Thank you.

18 Ms. Olivares.

19 COMMITTEE MEMBER OLIVARES: Thank you for this
20 presentation.

21 I had a couple questions under the section
22 "Diversification Along Key parameters", and some of the
23 allocation there. In particular, for the real assets
24 segments, we have some policy ranges and limits, and then
25 our exposure. And I noticed that essential, specialized,

1 and international seem to be out of range.

2 MS. FIELDS: Sorry. Excuse me. The ranges are
3 zero to then the upper band limit. Am I misunderstanding
4 the question?

5 COMMITTEE MEMBER OLIVARES: Yeah.

6 MS. FIELDS: So essential is 0 to 25 and has a
7 exposure of zero. Residential is 0 to 40 and has an
8 exposure of 23.6. Is that what we're looking at?

9 COMMITTEE MEMBER OLIVARES: I'm looking at
10 Attachment 2, page six of nine.

11 MS. FIELDS: Oh, I think that's infrastructure.

12 COMMITTEE MEMBER OLIVARES: Okay

13 MS. FIELDS: Sorry. They're up next.

14 COMMITTEE MEMBER OLIVARES: Thanks.

15 CHAIRPERSON FECKNER: Anything else, Ms.
16 Olivares?

17 COMMITTEE MEMBER OLIVARES: No, thank you.

18 CHAIRPERSON FECKNER: All right.

19 Seeing no other requests.

20 MS. FIELDS: Thank you.

21 MR. GLICKMAN: Thank you.

22 CHAIRPERSON FECKNER: Anything else?

23 All right. Before we go on to Item 9c, I just
24 want to state that, Mr. Darby, I believe the person who
25 was sharing information with you, that information was for

1 the previous agenda item for 8A not 9A. So now that we've
2 digested what you had to say, I believe that's where that
3 was coming from.

4 All right. Now, we move on to Item 9 -- so I
5 don't if that changes your request to speak under 9c, so
6 you just might want to consider that.

7 MR. DARBY: No, it doesn't.

8 CHAIRPERSON FECKNER: Thank you. All right, 9c,
9 the private equity.

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

12 INTERIM CHIEF OPERATING INVESTMENT OFFICER

13 BIENVENUE: Sorry, Mr. Chair, for 9b, we still have the
14 infrastructure consultant.

15 CHAIRPERSON FECKNER: Oh, very good. Sorry.
16 Yes.

17 INTERIM CHIEF OPERATING INVESTMENT OFFICER

18 BIENVENUE: Meketa will cover infrastructure and then
19 we'll move on to 9c.

20 CHAIRPERSON FECKNER: Had me confused, since one
21 was sitting over here and didn't say anything. I thought
22 well what are we doing over here.

23 MR. McCOURT: We'll be quick.

24 CHAIRPERSON FECKNER: No hurry.

25 MR. McCOURT: Steve McCourt, Meketa Investment

1 Group.

2 Our report is fairly brief. I'll make a couple
3 of summary comments and then hand it over to Lisa for a
4 handful of observations, and, of course, welcome any
5 questions from the Committee as well.

6 Three comments I'd like to make. First of all,
7 as was reported by staff and commented on already,
8 performance has been exceedingly strong for your
9 infrastructure assets. Over the prior ten-year period,
10 the annualized return is 17.9 percent. That, of course,
11 is your average return each year over those ten years.

12 I wanted to highlight the power of compounding in
13 the sense that what that means for you is that every
14 dollar you had invested in infrastructure ten years ago it
15 turned into \$5.70. Every billion dollars turns into \$5.7
16 billion. So this has been a very strong asset class for
17 you. The challenge that's been highlighted is trying to
18 get more dollars into this asset class given the
19 competition for it.

20 Your program is in compliance with all policy
21 parameters and we believe it's fully aligned with all of
22 your Investment Beliefs.

23 And with that, I'll hand it over to Lisa for a
24 few additional comments.

25 MS. BACON: Good morning. Lisa Bacon, Meketa

1 Investment Group. I'll walk through a couple of the
2 comments that we made in there. They're consistent and
3 echo the comments that Paul made in his report, and also
4 some of the comments my colleagues made around the real
5 estate portfolio.

6 Starting with performance, as Steve mentioned,
7 and others have, it's stellar, impressive. I wouldn't --
8 and we've -- we've guided the -- I wouldn't expect it to
9 continue at these levels. Some of your experience in the
10 infrastructure program has been unique. And I would
11 expect that to moderate some. Part of the marks right
12 here are benefiting from a very competitive core
13 marketplace, which is the same market that you all are
14 wanting to deploy money into.

15 And so that goes to the comments also that have
16 been made around the team's careful underwriting and
17 discipline, which we've had occasion to observe really
18 over the last four to five years, as a Board consultant,
19 and then as a -- as a regular consultant. And so we can
20 attest to the truth in that.

21 With respect to the growth of the portfolio, that
22 also has been impressive. Perhaps a little slower than
23 you or staff may have liked, but I think appropriate for
24 the asset class and the kinds of accounts and governance
25 structures that you all are seeking. It's fairly easy to

1 make commitments to commingled funds and get capital
2 drawn. It is harder to develop strategic relationships
3 with best-in-class partners to negotiate separate accounts
4 with the kinds of favorable governance that an institution
5 like CalPERS can command, and then to have those managers
6 in turn also be disciplined in the marketplace in getting
7 the kinds of assets that you all are seeking.

8 We've noted before the tremendous growth from
9 even ten -- you know, from ten years ago when the program
10 started out at about \$700 million to almost seven and a
11 half million now, when you think about what you've got
12 committed that hasn't been drawn, and what you've got
13 that's invested.

14 With respect to the net asset value, as Paul
15 mentioned, it's almost \$5 billion. He's had charts that
16 show you the growth in that over the last couple years of
17 a billion a year. That's really a tremendous
18 accomplishment in terms of getting that kind of capital
19 out with the kinds of discipline, and in the diverse
20 amount of assets in various sectors and in various
21 geographies to create a well diversified portfolio.

22 I'll also want to comment on the managers and the
23 investment structures. Again, echoing Paul's comments
24 that somewhat following the real estate model, but
25 modifying it for the realities of the infrastructure

1 space, the investment program is seeking to primarily
2 deploy capital through separate accounts.

3 In infrastructure, in some respects, that, I
4 would argue, is more challenging than in real estate.
5 Because the assets are so large, it is -- it s much harder
6 to go and get multiple infrastructure assets with a single
7 manager in the kind of volume and capital deployment that
8 I've seen be successful in the real estate space.

9 The kinds of assets that CalPERS is looking for
10 are multi-billion dollar assets usually. Some of them are
11 more in the middle market, several hundred million
12 dollars, but they're all highly -- highly competed. And
13 so it takes CalPERS relationships with these managers,
14 with the sellers as a partner that can transact and a
15 partner that is interested in a long-term hold.

16 Paul also mentioned some of the accomplishments
17 this year. With respect to some new separate accounts,
18 some expanded separate accounts, and some strategic
19 commitments to commingled funds that will provide certain
20 access to certain kind of investments, we've had the
21 opportunity to watch staff develop this strategy and
22 tailor it for the infrastructure program over the last
23 couple years. I know it's been frustrating for some of
24 you all and for them in the time it's taken to accomplish
25 this. But I can tell you that the outcome is very

1 impressive with respect to the accounts they have, the
2 governance they have, and the managers that they're going
3 to be able to move forward with. And so we have very
4 positive views about the team being able to continue to
5 deploy the amount of capital they're seeking to deploy in
6 the space with best-in-class managers.

7 I think I'll conclude my remarks with that and
8 answer your questions.

9 CHAIRPERSON FECKNER: Thank you.

10 Seeing no other requests, did you want to ask
11 your question again, Ms. Olivares?

12 Push your buttons.

13 Mr. Rubalcava.

14 COMMITTEE MEMBER RUBALCAVA: Thank you, Mr.
15 Chair. I think I've asked this before and I can't
16 remember the an -- where -- I need a refresher. What is a
17 club and consortia vehicles?

18 MS. BACON: So the term club generally refers to
19 a -- sort of an invitation only commingled fund, if you
20 will. So generally, it's anywhere from two to four
21 usually large pension plans that have similar goals and
22 objectives, and similar longer term hold, and so they
23 negotiate a -- this invitation only account with a general
24 partner. So it looks similar to a commingled fund, but
25 there are fewer members. They have more -- many more

1 governance rights than typically they would have in a
2 typical commingled fund.

3 So it's -- it's not exactly the one-to-one
4 alignment or relationship of a separate account, but a lot
5 of managers -- either want to expand their separate
6 account business or they're potentially leery of having an
7 account with one -- just with one LP. Having a club also
8 gives the manager more capital, for example, and more
9 dependable capital. It also helps the LPs participating
10 in that the ability to maybe not deploy such a big chunk
11 into a single asset, but take maybe a smaller piece, but
12 still have -- have the kind of governance that they're
13 looking for.

14 COMMITTEE MEMBER RUBALCAVA: Thank you.

15 Thank you, Mr. Chair.

16 CHAIRPERSON FECKNER: Thank you.

17 Ms. Olivares.

18 COMMITTEE MEMBER OLIVARES: Thank you.

19 So this -- sorry, I'm going to ask the question
20 now.

21 MS. BACON: Page six of nine.

22 (Laughter.)

23 COMMITTEE MEMBER OLIVARES: Page six.

24 MS. BACON: So on this table with respect to the
25 real asset segments, these segments are judged for

1 compliance at the Real Asset Program level. And so
2 they're not judged for compliance at the infrastructure
3 portfolio level. And so we put these here just really for
4 informational purposes. And since infrastructure is a
5 relatively small portion -- smaller portion of the whole
6 Real Asset Program compared to the 30 some billion dollars
7 that real estate has, the weights in infrastructure
8 don't -- don't influence the overall numbers that much.

9 But as the infrastructure program grows, it's
10 just something that we look at just to see what the
11 relationship is. And at least right now, there's no sort
12 of positive or negative judgment around the numbers.

13 COMMITTEE MEMBER OLIVARES: I'm sorry. I'm
14 trying to understand, so we have policy ranges in place,
15 right?

16 MS. BACON: Yes.

17 COMMITTEE MEMBER OLIVARES: But we're outside of
18 those policy ranges.

19 MS. BACON: So the policy ranges are applied at
20 the real asset program level --

21 COMMITTEE MEMBER OLIVARES: Um-hmm.

22 MS. BACON: -- and not at the infrastructure
23 portfolio level.

24 COMMITTEE MEMBER OLIVARES: Um-hmm.

25 MS. BACON: -- so these are informational only

1 and they're not --

2 COMMITTEE MEMBER OLIVARES: And why are they not
3 applied at the infrastructure level?

4 MS. BACON: They don't have to comply.

5 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: So we
6 are in compliance. I want to start with that. We are in
7 compliance with the limits in the policy guideline, given
8 that this is measured at the real assets level. So I
9 don't have the table committed to memory. But across our
10 separate segment limits or ranges, all of them are within
11 compliance today. It's just -- I believe what Meketa did
12 was just only look at within the infrastructure portfolio
13 and not across the program.

14 COMMITTEE MEMBER OLIVARES: Right, I understand
15 that.

16 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: The
17 other point I want to make is in terms of policy, the
18 infrastructure policy limits kick in once it gets over \$5
19 billion, which we will -- we will be in that position next
20 year -- over this year, I should say, this fiscal year.
21 Because once you're below five billion, you might do one
22 deal a few hundred million, it can move the needle so
23 dramatically, that at five billion there's enough of a
24 denominator for us to now measure the policy limits. So
25 in this fiscal year, we'll have breached the \$5 billion

1 floor, and all the policy within infrastructure will kick
2 in.

3 COMMITTEE MEMBER OLIVARES: So going back to the
4 ranges that are indicated here, so zero to 25 for
5 essential, and we're at 32; zero to 40 for residential --
6 I'm sorry zero to 20 for specialized, we're at 27;
7 international zero to 25, we're at 29.4, you're saying
8 those don't -- those policy ranges do not apply because
9 this is for infrastructure in particular. And if there
10 was a policy range for infrastructure, it wouldn't apply
11 until it's at five billion or more?

12 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Five
13 billion. So I'll give you the -- the real -- the actual
14 figures for essential. So the zero to 25 percent
15 permissible range for essential, we're actually at six
16 percent when you do the across real assets. So we're
17 within the range. And then I believe the other one you
18 mention was international?

19 COMMITTEE MEMBER OLIVARES: So essential,
20 specialized, and -- so I get there's real assets versus
21 international.

22 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Yeah.

23 COMMITTEE MEMBER OLIVARES: But I still want to
24 understand why we have these policy ranges in place for
25 infrastructure, what's the thinking behind that, and then

1 why do we have this change at the \$5 billion mark?

2 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: So the
3 ranges that you see are simply for real assets. They are
4 not for infrastructure, if I -- if I'm understanding.

5 COMMITTEE MEMBER OLIVARES: So we don't have a
6 policy range for infrastructure.

7 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: We
8 don't have a specific range for these segments, because
9 the segments apply to the whole portfolio. There are some
10 segments that include two different -- you know, they
11 technically include real estate and infrastructure
12 together.

13 COMMITTEE MEMBER OLIVARES: Um-hmm.

14 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: So take
15 something like commercial, commercial would include an
16 office building, industrial, and let's say a toll road.
17 So they all kind of merge together in order to -- for us
18 to manage the real assets pool.

19 The second point I made was just the fact that
20 any specific policy limit related to only infrastructure
21 is enforced once we get above a \$5 billion net asset
22 value. In order for us to build the portfolio up until
23 that point, there could be a lot of movement. And so
24 therefore, we, with the Board, put together that floor in
25 order for us to get -- get -- in order for us to build the

1 portfolio up until five billion.

2 COMMITTEE MEMBER OLIVARES: So what are the
3 policy limits once the \$5 billion trigger has been met?

4 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: The
5 policy would only apply to things like --

6 MR. McCOURT: Yeah, so the rest of that table
7 applies. So if -- if you look at that table, the footnote
8 under the real assets segment --

9 COMMITTEE MEMBER OLIVARES: Um-hmm.

10 MR. McCOURT: -- sort of highlights that's for
11 informational purposes only, because those policy limits
12 are at the real assets level. We're just providing
13 that --

14 COMMITTEE MEMBER OLIVARES: Um-hmm.

15 MR. McCOURT: -- those allocations for
16 information. The rest of the parameters that are
17 mentioned there, the risk clarifi -- risk classification,
18 geographic region --

19 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: And
20 leverage.

21 MR. McCOURT: -- and leverage are applicable to
22 the infrastructure program and the program is in
23 compliance today with all of those, even though what Paul
24 had mentioned, technically it doesn't have to be, because
25 it's not quite at \$5 billion yet.

1 CHIEF INVESTMENT OFFICER MENG: Yeah. And to
2 answer your question, Ms. Olivares, the reason we need \$5
3 billion -- no magic about five billion. We need a size --
4 a sizable portfolio. As I mentioned that particularly for
5 infrastructure investment, the size can be lumpy, right.

6 COMMITTEE MEMBER OLIVARES: Um-hmm.

7 CHIEF INVESTMENT OFFICER MENG: We have a big
8 deal coming in -- if your denominator -- the size of the
9 overall portfolio so small, the denominator is so small,
10 we have a new deal comes in can easily move you, the
11 constraints of the policy range from one way to another.
12 So that's why need to build a large enough portfolio
13 before we can apply any meaningful constraints or policy
14 to that segment of the portfolio.

15 COMMITTEE MEMBER OLIVARES: Thank you. Yeah, I
16 understand that. I -- so after that five billion trigger
17 has been met then, what -- do any policy range limitations
18 apply to infrastructure when it comes to essential,
19 specialized, and international or no?

20 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: The
21 only areas the policy covers are risk classification, so
22 that would be the core, value-add, or opportunistic,
23 geography being the United States, developed markets, or
24 emerging markets. And then there are leverage limits
25 around debt service coverage ratio and loan-to-value. All

1 of those items would be covered within the infrastructure
2 portfolio.

3 COMMITTEE MEMBER OLIVARES: Okay. So no
4 infrastructure segment policy ranges apply?

5 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA:
6 Correct.

7 COMMITTEE MEMBER OLIVARES: Thank you.

8 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Sorry
9 about that.

10 COMMITTEE MEMBER OLIVARES: That's fine.

11 CHAIRPERSON FECKNER: All right. Very good.
12 Thank you.

13 Anything else?

14 Great. All right.

15 INTERIM CHIEF OPERATING INVESTMENT OFFICER
16 BIENVENUE: And, Mr. Feckner, I misspoke. Next is
17 Wilshire and then we move on to private equity.

18 CHAIRPERSON FECKNER: Got it.

19 INTERIM CHIEF OPERATING INVESTMENT OFFICER
20 BIENVENUE: Thank you, sir.

21 CHAIRPERSON FECKNER: I wondered why he was
22 sitting there, so...

23 (Laughter.)

24 MR. JUNKIN: I've wondered that myself.

25 (Laughter.)

1 MR. JUNKIN: Andrew Junkin with Wilshire
2 Consulting. Good morning. At the risk of gilding the
3 lily, I have a few comments, but I will keep them short.

4 So I'm going to wear two hats. One is the
5 general pension consultant and then one is the forestland
6 consultant.

7 The -- as the general consultant, the most
8 important part of this review to us is that the real
9 assets asset class is playing the role it was designed, to
10 protect against inflation and to hedge against equity
11 risk. So it's doing both of those. We make some comments
12 specific to that in our letter. I won't -- I won't rehash
13 those here.

14 When it comes to forestland, I think I was here
15 with the investment was made in Crown Pine. So there was
16 some question about -- or a comment that Paul made about
17 that. And at the time, and goodness this was -- what was
18 the -- 2007, so 12 years ago, there was an expectation
19 that forestland was going to be a big part of the CalPERS
20 portfolio, going forward, like moving up to five or ten
21 percent of the program. In some ways, that was sort of
22 mimicking some of the things that the Ivy League
23 Endowments had done.

24 So the Crown Pine investment was looked at as
25 kind of a big step forward towards that goa. But the

1 market changed with the global financial crisis. If you
2 can believe it, it actually became less liquid. And
3 illiquid market becoming less liquid. And sales went from
4 some sizable chunks to very small chunks. So CalPERS
5 never really was able to build a fully diversified
6 portfolio. It's hard to estimate the size of the
7 institutional forestland market.

8 But one of the recent estimates is it's a couple
9 hundred billion dollars. So if you think of CalPERS at
10 ten percent, you know, you'd be almost 20 percent of that
11 market. That just doesn't work in an illiquid market.

12 So timber broadly, your portfolio obviously
13 hasn't done as well as the other segments of real assets.
14 CalPERS had some very specific issues with Crown Pine,
15 which are now gone. The issue of leverage, some forced
16 sales there. It was very concentrated. The remaining
17 assets, as Paul mentioned, are better. There's no rush to
18 fire sale them. They have to compete against the rest of
19 the real asset portfolio. There is now no longer a
20 forestland benchmark. There is simply a real assets
21 benchmark.

22 And if you find additional forestland that fits
23 well within that portfolio, then you could consider it.
24 There's none being considered at the moment, but there's
25 certainly no rush to get rid of the assets that you have

1 at the moment.

2 I do want to spend just one second here, and I
3 think everybody has touched, on it, in particular, as it
4 comes to building up the infrastructure portfolio and why
5 aren't we moving more quickly? And I think that's a great
6 question. But I think actually forestland is a pretty
7 good example of why you want to be careful.

8 So there was a lot of concentration risk trying
9 to move that portfolio forward quickly. And we can see
10 what happened, you know, with the benefit of hindsight.
11 Infrastructure admittedly has been slow growing. It is
12 also an illiquid hard-to-transact market. Pricing and
13 pacing is an issue.

14 If you look at the broad, private markets, we've
15 seen such a seismic shift for investors over the past 10
16 or 15 years. There is now \$2.6 trillion of dry powder,
17 with a "T". Of that, a billion and a half is private
18 equity, and I know they're coming up next, and I know that
19 pacing there is an issue. So keep that in mind.

20 And that \$2.6 trillion is up about 30 percent in
21 the last three years. Money is just pouring into private
22 asset classes. So real estate there's dry powder of about
23 400 billion. And infrastructure there's dry powder of
24 about 250 billion. So to the points that have been made
25 about sort of accelerating the growth and the

1 infrastructure market are moving the weights forward, it's
2 tough. It's tough to compete.

3 There are a lot of people chasing those assets
4 and I think that using forestland as an example, you can
5 see the benefit of the discipline that staff has had in
6 the infrastructure market.

7 CHAIRPERSON FECKNER: All right.

8 MR. JUNKIN: Happy to stop there.

9 CHAIRPERSON FECKNER: Thank you.

10 Mr. Jones.

11 COMMITTEE MEMBER JONES: Yeah. Thank you, Mr.
12 Chair. Yeah, Mr. Junkin -- yeah, just -- but on the point
13 about the slow growth in infrastructure to take from
14 lessons learned the timberland -- timber issues. But
15 those are really two very different industries. The
16 forest is a very small piece of the economy. The
17 infrastructure is the total economy.

18 So you may not want to use the same lessons
19 learned from timber to use for such a large potential
20 asset class. It's just an observation.

21 MR. JUNKIN: I completely agree. Really, might
22 point was about the concentration of trying to build a
23 portfolio when you have to take a bigger bite of something
24 to kind of move the portfolio forward.

25 COMMITTEE MEMBER JONES: Okay.

1 MR. JUNKIN: And it can work out really, really
2 well, as I think some of your first infrastructure
3 investments did. And they -- they -- because you had zero
4 to start with, your first few were significant pieces as a
5 percentage and they did spectacularly well.

6 COMMITTEE MEMBER JONES: Right.

7 MR. JUNKIN: I'm using forestland as the
8 countervailing example to that.

9 CHAIRPERSON FECKNER: All right. Anything else,
10 Mr. Jones?

11 COMMITTEE MEMBER JONES: No.

12 CHAIRPERSON FECKNER: Okay. Seeing nothing else,
13 thank you very much.

14 That brings us to Item 9c, private equity.

15 Mr. Meng.

16 (Thereupon an overhead presentation was
17 presented as follows.)

18 CHIEF INVESTMENT OFFICER MENG: Yes, Mr. Chair.
19 So again, this is the annual program review of the second
20 private asset class, which is private equity. So with
21 that, I will turn it over to my colleague Greg Ruiz and
22 also to together with the consultants.

23 MANAGING INVESTMENT DIRECTOR RUIZ: Good morning.

24 CHAIRPERSON FECKNER: Good morning.

25 MANAGING INVESTMENT DIRECTOR RUIZ: Before I dive

1 into my presentation, I wanted to start with an overall
2 assessment of the program. I believe the core of our
3 Private Equity Program is stable and healthy. We have
4 strong relationships with high quality managers and
5 maintaining, cultivating, and expanding those
6 relationships is going to be fundamental to the success of
7 the program.

8 The private equity industry is dynamic and
9 changing and there are opportunities for us to continue to
10 evolve our private equity strategy. It's important that
11 we do so.

12 A thoughtful and cautious evolution to our
13 program will better position us to leverage our core
14 capabilities, achieve our targeted rate of return, while
15 deploying additional capital into the asset class.

16 --o0o--

17 MANAGING INVESTMENT DIRECTOR RUIZ: As we move to
18 the presentation itself, I'd like the start with our
19 portfolio.

20 The objective of our private equity portfolio is
21 to enhance the equity returns of the fund. Our allocation
22 to and returns from private equity today are the result of
23 decisions made over the past five and even ten years.
24 Likewise, the decisions we are making today will not be
25 fully experienced in the portfolio for five or ten years

1 to come.

2 With such a long dated asset class, it's
3 incredibly important that we have consistency and a
4 long-term commitment through all market environments.

5 We have a very talented team with significant
6 experience in private equity. Under the leadership of
7 Sarah Corr over the past two years, the team has shown
8 resilience in the face of significant uncertainty about
9 the direction of the program.

10 This has been no easy feat, and I'm incredibly
11 proud of the work the team has done to maintain CalPERS'
12 position in the industry, while developing an inclusive
13 and collaborative culture.

14 When we look at our performance, there are three
15 methods we use. We look at our performance relative to a
16 benchmark, relative to our asset liability management
17 assumptions, and relative to other asset classes, in
18 particular global equity.

19 I'll go into additional detail later in the
20 presentation on our performance. But at a high level,
21 we've outperformed our benchmark over the 20 and one year
22 time horizons, and we've underperformed our benchmark over
23 the three, five and ten-year time horizons.

24 Relative to our ALM assumptions, and other asset
25 classes, we've outperformed for nearly all time periods.

1 You'll see us continue to focus on our core
2 capabilities, which are effective underwriting and engage
3 monitoring. And we will also assess how we can expand our
4 investment capabilities.

5 Co-investment is going to be an important element
6 of our strategy moving forward. And it's an area where I
7 expect we'll make progress this year. It will also be an
8 area here we need to assess our resources. We'll need to
9 look at what we need to execute the strategy, and we may
10 need to expand our capabilities with additional resources.
11 We will also continue to integrate ESG factors into our
12 investment processes and areas where we've made
13 significant headway over the past few years.

14 --o0o--

15 MANAGING INVESTMENT DIRECTOR RUIZ: On this slide
16 we lay out performance. Once again, they're the three
17 relevant comparisons I noted earlier. Compared to
18 benchmark, you'll see we outperformed our benchmark over
19 the 20, and one-year time horizon. And we've
20 underperformed over three-, five-, and ten-year time
21 horizon.

22 Relative to our ALM assumptions, we've
23 outperformed over all time horizons, with the exception of
24 the one-year. And relative to the global equity
25 benchmark, we've outperformed over all time periods.

1 to jump in.

2 COMMITTEE MEMBER BROWN: Okay.

3 MANAGING INVESTMENT DIRECTOR RUIZ: So the way
4 our benchmark works is it's set basically on a public
5 equity index, and then there's an additional amount above
6 that. So until recently it was plus 300 basis points.
7 Now, it's plus 150 basis points.

8 COMMITTEE MEMBER BROWN: Um-hmm, 150.

9 MANAGING INVESTMENT DIRECTOR RUIZ: So the
10 benchmark is just going to be a reflection of the
11 underlying public index, plus now 150 basis points. So it
12 will fluctuate each year. And years where the public
13 markets perform very well, it will be high and years when
14 it -- they perform less well, it will be lower.

15 CHIEF INVESTMENT OFFICER MENG: In addition to
16 the spread on top of the public equity market returns,
17 there's also a one quarter delay. So our -- because of
18 the appraisal process.

19 COMMITTEE MEMBER BROWN: Right.

20 CHIEF INVESTMENT OFFICER MENG: So it's one
21 quarter lagged public equity plus 150.

22 COMMITTEE MEMBER BROWN: Yeah, the benchmark just
23 seems so low, like I could stagger over that bar.

24 CHIEF INVESTMENT OFFICER MENG: But please, be
25 mindful that we are trying -- this is a long-dated asset

1 class where we focus on long term. So the year-by-year
2 return public market, given the volatility of the public
3 markets. So you -- we expect to see this kind of
4 volatility in the benchmark.

5 COMMITTEE MEMBER BROWN: Okay. Thank you.

6 CHAIRPERSON FECKNER: Thank you.

7 Ms. Yee.

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

9 I want to just take a look at slide 23 and
10 understand a little bit better why the fees were
11 substantially higher this fiscal year when the assets
12 under management dropped by about \$700 million.

13 MANAGING INVESTMENT DIRECTOR RUIZ: Yeah. So
14 there's really two components of the fees that are lumped
15 in, if you look at the external management.

16 COMMITTEE MEMBER YEE: Right.

17 MANAGING INVESTMENT DIRECTOR RUIZ: There's two
18 components to the fee. One is the management fees we pay
19 on our assets and the other is performance fees.

20 The way the performance fees work are they -- our
21 managers will take a share of the profits above a
22 preferred return.

23 COMMITTEE MEMBER YEE: Right.

24 MANAGING INVESTMENT DIRECTOR RUIZ: When there is
25 a strong selling environment and we're receiving a lot

1 distributions, they will receive a share of those profits.
2 So while overall fees went up, the vast majority of that
3 is driven by the performance fees, which means we also
4 receive very significant distributions.

5 COMMITTEE MEMBER YEE: Okay.

6 CHIEF INVESTMENT OFFICER MENG: You see so this
7 is the very place that we're happy to pay a higher fee.
8 It means that our managers have generated a higher return.
9 And we want to see this -- that is alignment of interest.
10 When we do well, we don't mind they do well.

11 COMMITTEE MEMBER YEE: Right. Okay.

12 And I guess on the issue of alignment of
13 interests, I wanted to just kind of get your sense of how
14 much influence CalPERS really has on GPs with respect to
15 ESG factors and on -- on analysis of potential
16 investments. So are our policies integrated into the
17 portfolio company operations? I guess, where does --
18 where does that consideration get made?

19 CHIEF INVESTMENT OFFICER MENG: So I will take
20 first stab, and then turn it over to Greg, and maybe even
21 the Beth and Anne as well.

22 So in terms of our ESG integration in private
23 equity, so I see a few layers. First, before we select a
24 general partner during the due diligence process, we ask
25 them what they do. How do they do to incorporate into the

1 ESG considerations. So that's the due diligence process.

2 And then we also asked portfolio companies -- the
3 GPs when they invest in portfolio companies, they take
4 these factors into consideration. And at the same time,
5 when we analyze the GP itself, for example, the
6 governance, and we look at how GPs conduct themselves from
7 the ESG lens as well. So there's a few layers before we
8 select them, and then we work with them, then we encourage
9 them to consider these factors in their underwriting.

10 So that's your second. Your first question how
11 influential or how much we can do impactful CalPERS can be
12 in terms of advocating ESG considerations.

13 We have to say that we are very proud of what we
14 have done. But we have to recognize the reality as one
15 investor of one public pension fund, our voice is limited.
16 But even given that constraints, we're very proud of what
17 we have done in terms of advocating the considerations and
18 engaging with companies. But we also have to be very
19 mindful in terms of integration into our portfolio. And
20 that's where apply the highest standard which is our
21 fiduciary duty.

22 COMMITTEE MEMBER YEE: Right. Okay. So -- and I
23 appreciate that, because I think it -- certainly on every
24 level that we will be engaging in the earlier stages.
25 That makes sense. And hopefully there will be some

1 opportunity to actually incorporate some of the good work
2 that has been done, particularly carbon footprint data and
3 the like.

4 We have been a leader at CalPERS with respect to
5 corporate board diversity on the public side. And I
6 recently sent a letter requesting more information with
7 respect to private equity managers and portfolio corporate
8 board diversity. I just wanted to get a sense of are
9 there opportunities for us to continue our leadership
10 respect to the -- on the private side?

11 CHIEF INVESTMENT OFFICER MENG: So on that note,
12 there is organization called ILPA.

13 COMMITTEE MEMBER YEE: Um-hmm. Yes.

14 CHIEF INVESTMENT OFFICER MENG: I want to
15 Institution Of Limited Partner Association.

16 COMMITTEE MEMBER YEE: Uh-huh.

17 CHIEF INVESTMENT OFFICER MENG: And as a
18 representative of the entire LP community, I think they
19 can be the most effective.

20 COMMITTEE MEMBER YEE: Okay. I just want to be
21 sure that we hopefully can take every opportunity to try
22 to push those goals and look at what more can be done, and
23 particularly since we're making such progress on the
24 public side.

25 COMMITTEE MEMBER YEE: Thank you.

1 CHAIRPERSON FECKNER: Thank you.

2 Mr. Perez.

3 COMMITTEE MEMBER PEREZ: Mr. Ruiz, on slide 14,
4 of 23, your first bullet there says, "Maximize
5 risk-adjusted rate of return and enhance the equity return
6 to the total fund". Can you ex -- can you explain in
7 English how we can maximize the risk-adjusted rate of
8 return in private equity?

9 MANAGING INVESTMENT DIRECTOR RUIZ: Yeah. So
10 what that means is we're looking to back managers. So
11 these are people who are investing in companies. We're
12 looking to back managers who we think can durably add
13 value through all cycles. So that's any kind --
14 regardless of how the broader market is performing, we
15 want to back managers who we think have specialized skill
16 sets that can add value beyond that.

17 So the role of private equity in our portfolio is
18 to partner with these groups and deploy capital to them in
19 the hopes of generating returns that are above what we're
20 seeing in any other asset class.

21 COMMITTEE MEMBER PEREZ: But how does that -- how
22 does the maximizing the risk-adjusted return?

23 MANAGING INVESTMENT DIRECTOR RUIZ: Yeah. What
24 we mean with the risk-adjusted piece is we always think
25 about the risk when we're deploying capital. And you

1 could chase high returns in any given place in the market.
2 But if you're not thinking about the downside protection,
3 you expose yourself to changes in the market environment,
4 where what once looked very attractive has become much
5 less attractive.

6 And so I think what you see -- you'll see in our
7 underwriting process is we are constantly asking ourself
8 how managers think not only about the opportunities, but
9 also the downsides. So there may be times where we do not
10 engage with a manager who has very strong returns, because
11 we don't have the belief that at an underlying level
12 they're going to outperform across cycles. It's difficult
13 work, but that's where we spend a lot of our time and
14 diligence.

15 COMMITTEE MEMBER PEREZ: Thank you.

16 CHAIRPERSON FECKNER: Thank you.

17 Mr. Jones.

18 COMMITTEE MEMBER JONES: Yeah, thank you, Mr.
19 Chair.

20 Yeah. A couple of technical questions. If you
21 could go to page 16 of 23. Yeah, the less than one
22 percent target is -- will that eventually go to zero,
23 because did -- did we have a policy to change our strategy
24 in venture capital allocations?

25 MANAGING INVESTMENT DIRECTOR RUIZ: You know,

1 it's a very good question. And I'd say with venture
2 capital, it's an area where we're actively considering our
3 approach. And as was mentioned in the earlier
4 presentation, one thing that we always have to think about
5 is how do we participate in a particular segment at scale.

6 Our historical experience, as you see there, has
7 not been particularly strong in the asset class. I think
8 there are certainly arguments both ways and it's an area
9 where we're taking kind of a close look at how we want to
10 position ourselves going forward.

11 COMMITTEE MEMBER JONES: Okay. But did the Board
12 take action to remove this asset strategy from the
13 portfolio or that's just a staff --

14 CHIEF INVESTMENT OFFICER MENG: I do not think
15 so. I don't think the Board made a decision to remove
16 venture capital from the portfolio. The -- what you see
17 tail-end of venture capital in the portfolio, less than
18 one percent, I would call that almost like a legacy asset
19 is left over from early days. And as Greg just mentioned
20 that in the past, we -- we were out of the VC -- the
21 market segment for a number of reasons. And now, we are
22 trying to find ways to get us back into the VC community
23 and get venture capital investment back into our
24 portfolio. But the fact that we have been out of the
25 market for so long, there -- there are some catch-up to

1 do.

2 COMMITTEE MEMBER JONES: And that was the basis
3 for my question, because if -- on our private equity model
4 we talked about going forward in venture capital, but I
5 thought I remembered the Board taking action on this
6 specific strategy some years ago. So maybe I'm --

7 CHIEF INVESTMENT OFFICER MENG: Maybe Sarah --
8 Sarah --

9 COMMITTEE MEMBER JONES: Yeah, I'm just trying to
10 make sure we're not having conflicting policies. And so
11 that's the reason for the question.

12 INVESTMENT DIRECTOR CORR: Sarah Corr, Investment
13 Office staff. When these ranges were put in place back in
14 2012, I believe, it always was one percent. At that point
15 in time, staff didn't believe we could deploy capital in
16 venture capital in a meaningful amount. The average fund
17 size for venture funds is smaller than our average
18 commitment is. And so it's like a really hard area for us
19 to deploy capital given our scale.

20 COMMITTEE MEMBER JONES: Okay. So it was just
21 this -- your strategy decision. It wasn't a Board
22 decision. That's what I was trying to get at.

23 INVESTMENT DIRECTOR CORR: The Board approved the
24 policy target of less than one percent.

25 COMMITTEE MEMBER JONES: Oh, okay. Less than one

1 percent. Okay. All right. Thank you.

2 And then the other question is Ms. Brown's
3 question about the four percent benchmark. And I remember
4 you gave us a tutorial on benchmarks. I think we spent
5 almost an hour being oriented in benchmarks. And so
6 that -- public equities plus one and a half, 15 -- 150
7 basis points, was that a policy decision when we changed
8 it?

9 CHIEF INVESTMENT OFFICER MENG: Yeah. So that
10 was part of the 2017 ALM process.

11 COMMITTEE MEMBER JONES: Yeah. Okay. Okay. So
12 we -- it was a policy change. I just wanted to put that
13 in the record.

14 Okay. Thank you.

15 CHAIRPERSON FECKNER: Thank you.

16 Ms. Brown.

17 COMMITTEE MEMBER BROWN: Well, thank you. Let me
18 piggyback on Ms. Jones -- Mr. Jones piggybacking on me. I
19 want to go back to that same table, page six of 23 and go
20 back to that PE policy benchmark of four percent. Have we
21 calculated that to see what it would have been under the
22 prior calculation, the old -- the old number plus 300?

23 CHIEF INVESTMENT OFFICER MENG: So that would
24 550. The previous one is public equity plus 300. So this
25 is public probably equity plus 150.

1 COMMITTEE MEMBER BROWN: It was really much more
2 complicated than public equity plus 300. It was a bunch
3 of things as someone reminded me of that. It was really
4 complicated, plus 300 the old benchmark.

5 CHIEF INVESTMENT OFFICER MENG: It was public
6 equity -- the compensation public equity benchmark has
7 different components. And now I believe it is MSCI All
8 World All Cap. So the one index plus 150. You're right,
9 it used to be a combination for a few subindex and plus
10 300.

11 COMMITTEE MEMBER BROWN: So have we done that
12 calcu -- I'd be interested in knowing what that
13 calculation was, if we go back. It just looks like we --
14 with the new benchmark, we've set it way too low. That's
15 my only concern, that if we can really just, you know,
16 stumble over the benchmark, then it's not -- it doesn't
17 appear to work for me. But we'll -- we'll find out and we
18 can also ask our consultant about that.

19 CHAIRPERSON FECKNER: Anything else, Ms. Brown?

20 COMMITTEE MEMBER BROWN: No. Thank you.

21 CHAIRPERSON FECKNER: All right. Mr. Rubalcava.

22 COMMITTEE MEMBER RUBALCAVA: Thank you, Mr.

23 Chair.

24 I appreciate the continued focus integration of
25 ESG factors. And I appreciate the discussion about

1 risk -- maximizing risk adjustment rate of returns. But
2 one thing I just want to make sure we're conscious of or
3 want to speak -- if you could speak to it, Mr. Ruiz, is
4 something I didn't see is -- speaking of risk, is human
5 capital management. I know in private equity there's been
6 a lot of literature about -- there's been negative
7 consequence about layoffs. And I'm thinking of the
8 Toys"R"Us story, you know, things like that. So I just
9 want to make sure that that's something we're also focused
10 and are moving forward.

11 MANAGING INVESTMENT DIRECTOR RUIZ: Yeah, it
12 is -- you know, when we assess managers, we assess them
13 across many dimensions. But I'd say through it all, it's
14 incredibly important to us that we partner with people of
15 integrity. And so that's kind of first and foremost. And
16 I'd say the -- there are many complexities once you get
17 into managing companies. And we try and pick partners who
18 we think will navigate those as well as possible.

19 You know, once we enter into a partnership, we
20 are not in control. You know, we're one voice, but we are
21 an active voice. And, you know, we certainly try and use
22 our influence with our managers to get to the best
23 outcomes we can.

24 COMMITTEE MEMBER RUBALCAVA: Thank you.

25 CHAIRPERSON FECKNER: Thank you.

1 Mr. Saha.

2 ACTING COMMITTEE MEMBER SAHA: Thank you, Mr.
3 Chair. And thank you for the presentation, Mr. Ruiz, as
4 well.

5 Question about something you mentioned in your
6 presentation about that the culture has improved. And it
7 was on page four, one of the bullet points is that you
8 "Built a more effective and collaborative culture". And I
9 don't want to infer anything negative about what the
10 culture may have been, but maybe you can elaborate a
11 little more on what -- how you've improved or what's been
12 done.

13 MANAGING INVESTMENT DIRECTOR RUIZ: Yeah. And
14 much of the credit goes to the team and happened before I
15 was here in this role. But I think what you've seen over
16 time is movement towards kind of much better leveraging of
17 our intellectual capital across the team, less siloing,
18 more collaboration, more inclusion, more robust
19 discussions. And I think all of that leads ultimately to
20 better investment judgments and investment outcomes. So
21 that's -- kind of those changes, you know, we've seen on
22 the team and I think have been clear positives.

23 ACTING COMMITTEE MEMBER SAHA: Okay. Thank you.

24 INTERIM CHIEF OPERATING INVESTMENT OFFICER

25 BIENVENUE: And I think it's worth noting that -- and Greg

1 is spot on right, that this is something that we've seen
2 within the private equity team, we've tried to drive
3 within the entire Investment Office. That's been a real
4 focus of Ben's. It's all focused on the total fund and
5 one team. And then even within the enterprise, we
6 ourselves is one team trying to manage this large
7 portfolio to pay benefits over a multi-generational time
8 horizon, but it's all about one team and one fund.

9 ACTING COMMITTEE MEMBER SAHA: Thank you.

10 CHAIRPERSON FECKNER: Very good. Thank you.

11 All right. Seeing no other requests, anything
12 else Mr. Ruiz?

13 MANAGING INVESTMENT DIRECTOR RUIZ: No.

14 CHAIRPERSON FECKNER: Very good. Thank you.

15 Wait. Before you -- before you leave we have one
16 request from the audience. Mr. Darby, please come
17 forward. Again, you'll have up to three minutes for your
18 comments.

19 MR. DARBY: Mr. Chair, Board members, Al Darby,
20 RPEA President.

21 Again, I preface my remarks that they were based
22 on information from an expert consultant, someone who
23 served on this Board and was an Investment Officer at
24 CalPERS for many years.

25 The staff here is proposing to amend the

1 definition of customized investment account in the CalPERS
2 specific glossary of terms to provide staff with more
3 flexibility in selecting partners for these specialized
4 accounts. The current constraints are quite stringent,
5 distinct expertise, and in an industry geographic region
6 investment style and with demonstrated ability to provide
7 top quarter returns.

8 So softening these requirements would again be an
9 abdication of Board oversight in this whole private equity
10 scheme of things. So again, Board erosion of oversight is
11 suggested by this proposal.

12 Thank you.

13 CHAIRPERSON FECKNER: Thank you.

14 Item 9d, the consultant review of the Private
15 Equity Program.

16 MR. HARTT: Good morning. Steve Hartt from
17 Meketa Investment Group.

18 CHAIRPERSON FECKNER: Good morning.

19 MR. HARTT: I'm joined by my colleague Steve
20 McCourt. Here to discuss the 2019 program review, which
21 we've included as Item 9d in your package.

22 So first I wanted to thank you for your renewed
23 confidence in Meketa Investment Group as your private
24 equity Board consultant. Thank you very much.

25 I just wanted to go through a couple of topics

1 not going through page by page here, and Steve will pick
2 up on a couple as well. I think that some has been
3 discussed already here. But the important aspect of
4 deploying assets at scale for this program is quite
5 important. The program has ramped up its deployment of
6 capital, as little as \$3 billion a couple of years ago, to
7 now seven billion and kind of rising from there.

8 So in terms of dollars, it's been increasing.
9 We've noticed also that the quality of the underwriting
10 has remained strong as well, so we feel good about that.

11 But in order to continue to deploy at scale,
12 additional avenues of deployment need to be continued to
13 be thought about. As been discussed, co-investments is
14 one that is under active review now, and is getting
15 continued attention, and expect that's going to be
16 implemented more specifically later on in this year or in
17 2020.

18 Also -- as also been discussed here, the
19 reduction of siloing within CalPERS and the more emphasis
20 on the one fund approach has allowed staff to think more
21 broadly about opportunities that may be available. And
22 without having to consider should it belong in one area or
23 another, the right groups with the right analytical
24 capabilities and relationships can assess those
25 opportunities. So we've been pleased that that's

1 continuing and a developing area within CalPERS.

2 And the activities -- there have been a lot of
3 work done by staff on the Pillars 3 and 4, the horizon and
4 innovation portfolios. That's not at front burner right
5 now certainly, but there was a lot of work that was done
6 and continued thought process around that to see if that
7 will make sense to move forward.

8 Moving to the staffing. As Greg had mentioned, I
9 think the staff had done a really good job at maintaining
10 CalPERS' presence in the marketplace and increasing the
11 pacing over the last couple of years. And that's been
12 good to see. And obviously now with Greg established as
13 the Managing Investment Director subsequent to the end of
14 the review period, but that's a definite plus and can
15 be -- have the team more settled in the private equity
16 area.

17 I'll turn to Steve to talk about a couple of
18 further topics.

19 MR. McCOURT: Great. Thank you. I'm going to
20 address performance and portfolio implementation. As
21 staff noted at the end of the fiscal year, the Private
22 Equity Program was valued at \$26.5 billion. That was a
23 three percent decrease in NAV over the prior year. Much
24 like the last eight or nine years, the net asset value
25 declined, not because returns were negative. We've gone

1 through the positive returns, but you continue to get more
2 cash back in your private equity program from general
3 partners and you allocate to them. This year, that amount
4 was about \$2.7 billion received back from general
5 partners. And since 2011, you've now received \$34 billion
6 in cash back from the program, in excess of contributions
7 to the program on a net-of-fee basis.

8 The performance of the program over time has been
9 strong. For the trailing ten years, the program has
10 produced a return of 14 percent per year on average.
11 Again, translating that into kind of a cumulative return
12 number in the last decade. That turns every dollar in the
13 private equity asset class into 3.7 dollars -- or every
14 billion dollars into \$3.7 billion.

15 It's been your strongest performing asset class
16 over that time period and has outperformed your long term
17 expectations in private equity, as well as the fund's
18 actuarial assumed rate of return. As was noted, the
19 current benchmark to private equity returned 4.4 percent
20 for the current year. So your program outperformed that
21 benchmark by 3.3 percent.

22 And over the trailing three, five, and ten years,
23 your returns have approximated that benchmark. They've
24 failed to achieve the legacy benchmarks that you've had in
25 private equity over that time period. In terms of

1 implementation, much like with infrastructure, as was
2 noted, the challenge in private equity has been less about
3 achieving great returns and more about how to achieve
4 scale in the asset class in a very competitive, illiquid
5 market environment.

6 Greg mentioned some of the elements that staff is
7 looking at to expand their ability to achieve higher
8 levels of investment in private equity. We would
9 highlight that co-investments we believe are going to be a
10 strong area to continue to look at to allocate additional
11 capital to the space and in a much more LP-friendly fee
12 way, and also expanding relationships beyond the Core 30
13 relationships that you have in order to achieve the -- the
14 long-term pacing assumption required to achieve your
15 long-term target investment allocation.

16 The final thing I want to highlight is that the
17 plan -- the program is currently invested within all
18 policy parameters, as noted on page six of our memorandum.

19 MR. HARTT: Final thing, as your Board
20 consultant, we remain very active with the staff in all
21 aspects of the program. So all 18 of the investments that
22 were completed in the fiscal year, we were involved in the
23 policy compliance review. There were 34 Investment
24 Committee -- Review Committee meetings that took place,
25 where those and other investments were discussed, and we

1 participated in all those.

2 And there were a number of policy changes and
3 reviews that we conducted, and, of course, the semiannual
4 reports that we have been involved with. So we remain
5 very enthusiastic about the Private Equity Program and
6 look forward to another good fiscal year.

7 Happy to answer any questions.

8 CHAIRPERSON FECKNER: Thank you.

9 Ms. Yee.

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

11 So what I'm hearing is that we're comfortable with the
12 ability to meet the \$10 billion annual pacing goal and --
13 or given the focus on some of the other areas that -- to
14 improve to try to meet that, right?

15 MR. HARTT: So I'd say there's two aspects to it.
16 The first aspect being that -- the staff capability to --

17 COMMITTEE MEMBER YEE: Yes.

18 MR. HARTT: -- actually review the investment
19 opportunities. That is there. The other important aspect
20 is as of this moment, this fundraising environment, there
21 is ability to actually deploy at that pace, because there
22 is a lot of managers raising that capital.

23 COMMITTEE MEMBER YEE: Right.

24 MS. HARTT: You know, a challenge might be in a
25 different environment will there be \$10 billion worth of

1 available high quality opportunities for CalPERS in
2 situations where managers are not raising as much capital?
3 And I think that's going to be -- it's going to be very
4 helpful for the staff to have additional avenues and ways
5 of deploying capital, having the co-investments, having
6 the separate managed accounts, having these other avenues
7 that they can pursue to be able to deploy that capital.
8 But for the next year, they're turning away more capital
9 opportunities than they are underwriting for sure.

10 COMMITTEE MEMBER YEE: Okay. Good. Good.

11 And then when the list of the core GPs reduced to
12 the 30 a few years ago just to focus on investing with
13 quality GPs - and I was happy to see the discussion about
14 really increasing that number - obviously with more
15 penetration in the area of co-investments. I assume you
16 believe that's prudent to do as well.

17 But my real question is are there best practices
18 that will ensure that we are going to continue to invest
19 with quality GPs going forward as we expect?

20 MR. HARTT: Yeah. So the underwriting process at
21 CalPERS is very strong. I think that, you know, you can
22 see both in this year's letter and prior year's letter,
23 there were some new managers that became part of the
24 portfolio. So, you know, the CalPERS folks are -- and
25 staff are certainly looking for new managers on an active

1 basis and using their transition manager programs,
2 emerging manager programs as some of the sources to find
3 those opportunities.

4 So at this point, we feel that they -- they are
5 continuing to pursue those other managers. And that makes
6 sense to do and they have strong underwriting practices
7 around that.

8 MANAGING INVESTMENT DIRECTOR RUIZ: Controller
9 Yee, I just wanted to jump in on that.

10 COMMITTEE MEMBER YEE: Please.

11 MANAGING INVESTMENT DIRECTOR RUIZ: While we are
12 expanding the amount of managers we're looking at, I would
13 just convey that the bar for becoming a new manager in our
14 portfolio is incredibly high.

15 COMMITTEE MEMBER YEE: Yes.

16 MANAGING INVESTMENT DIRECTOR RUIZ: So first and
17 foremost, we want to maintain incredibly high underwriting
18 standards. We think there are more than 30 managers that
19 reach that bar. But as we look at new opportunities, it's
20 going to be a very small subsegment of those that actually
21 become part of our portfolio.

22 COMMITTEE MEMBER YEE: Okay. That makes sense.

23 And then to Meketa, so do you have any ideas
24 about what more staff could do to achieve the diversity in
25 both GPs and portfolio company boards and management? I

1 mean, are you seeing kind of activity outside of CalPERS
2 that may be helpful?

3 MR. HARTT: I know that they include those sorts
4 of aspects in their underwriting process and their due
5 diligence.

6 COMMITTEE MEMBER YEE: Um-hmm.

7 MR. HARTT: I'm looking for that. And noting
8 that the ESG is an important aspect of their underwriting
9 processes as staff has explained.

10 There is some limitation as a limited partner in
11 a fund about how one can -- subsequent to the commitment
12 of the capital, how one can direct the general partner.
13 But there is a general movement within the private equity
14 and private markets manager community in general that
15 these are important aspects, and they are being taken care
16 of, and being addressed maybe not consistently across all
17 managers, but it is an area of focus and importance for
18 the general partners.

19 And I think as mentioned also, ILPA, as a trade
20 organization --

21 COMMITTEE MEMBER YEE: Um-hmm, right.

22 MR. HARTT: -- has made it some -- you know, able
23 to amplify the voice for, you know, a larger set of
24 limited partners on these sorts of topics.

25 COMMITTEE MEMBER YEE: Great. Thank you.

1 Thank you, Mr. Chairman.

2 CHAIRPERSON FECKNER: All right. Before we go on
3 to Ms. Olivares, I was just going to ask if you could
4 weigh in with your opinion or your view on our
5 benchmarking and how difficult is that to achieve and what
6 are other funds doing?

7 MR. HARTT: So benchmarks are, you know, a
8 challenge. We've talked about it several times in here.
9 I think that where it is now, that the -- having the
10 benchmark now focused on the next alternative asset class
11 for these sorts of dollars to go into being the public
12 equity asset class is the right one, because, you know, if
13 you weren't going to do private equity, where would you
14 try to get something similar. That would be the global
15 private equity.

16 The spread of 150 basis points we do believe is
17 appropriate as well, because it is a reflection of what is
18 expected for that asset class for private equity to
19 achieve in excess of the public equity markets.

20 And by aligning the benchmark with asset -- long
21 term asset class expectations, there is some internal
22 logic around that, that we believe makes sense.

23 The -- across different investors, different LPs
24 that are participating in the asset class, the large
25 majority have some sort of a public equity plus a spread

1 approach. Some of them use different sets of public
2 equities for that benchmark. Some have, in addition, what
3 they call a peer index, which is, you know, a private
4 equity related index, how is that asset class doing
5 overall, and comparing how the performance of the private
6 equity in the -- the particular LP's portfolio is doing
7 against the broad marketplace and to try to see --
8 essentially answering the question there how much of the
9 returns stream that is available in private equity is the
10 LP actually achieving. That's answering a little bit of a
11 different question, so -- but overall, for this purpose in
12 terms of should we allocate -- should CalPERS allocate
13 money to private equity or not, having a public equity
14 plus a spread benchmark I think makes a lot of sense.

15 MR. McCOURT: And I just want to add or emphasize
16 one element of that, which is your private equity
17 benchmark is aligned with your long-term asset allocation
18 assumptions for the asset class and the Global Equity
19 Asset Class. So to have a benchmark that differed from
20 your asset allocation policy, as it did historically, does
21 strike one as a little inconsistent from a policy
22 perspective.

23 And much like every asset class on the planet
24 these days, return expectations are lower today than they
25 were five years ago or ten years ago. So the reduction in

1 the premium is consistent with how other asset classes
2 were treated in the asset allocation process.

3 CHIEF INVESTMENT OFFICER MENG: Mr. Chair, if I
4 may add on. This question came up a couple times this
5 morning on the private equity benchmark and partly the
6 spread. It used to be 300, now it's 150. So I would like
7 to highlight two caveats to that. For one, generally
8 speaking, people believe the additional or the spread on
9 top of public equity. We expect that from private equity.

10 And that's really mainly to compensate for the
11 illiquidity premium. Because compared to public equity,
12 private equity is not illiquid. So naturally, as an
13 investor, we demand some premium to be paid for the
14 illiquidity.

15 So that illiquidity premium now is again smaller
16 and smaller, simply because since the global financial
17 crisis of 2008, global central banks have been flooding
18 the capital market with excess liquidity. When you have
19 so much liquidity available, naturally the price for
20 liquidity will come down. So that's one reason for the
21 narrow spread.

22 And the other one, over the decades of
23 experience, we realized that for our size to earn -- we
24 run \$400 billion fund. To earn seven percent return is
25 much harder than \$40 billion fund to earn seven percent

1 return. So naturally our -- the size of our Private
2 Equity Program is much larger than many of our peers. And
3 for smaller program, they were able to deliver generally
4 speaking higher return. But at our size, it's getting
5 harder and harder. So that's, you know, additional caveat
6 to why the spread is coming down. One is the illiquidity
7 premium is coming down and the other is the -- our size is
8 getting bigger and bigger.

9 CHAIRPERSON FECKNER: Thank you.

10 Thank all of you.

11 Ms. Olivares.

12 COMMITTEE MEMBER OLIVARES: Thank you. This is
13 helpful. And I, too, have questions about the benchmark
14 again. So I'm looking at page three of the report --
15 attachment 1, page three of eight. And I see that the
16 benchmarks are both footnoted. The current benchmark and
17 the previous benchmark is footnote number 2.

18 The current benchmark is the Custom FTSE All
19 World All Cap Equity.

20 MR. HARTT: Yes.

21 COMMITTEE MEMBER OLIVARES: What do we mean by
22 custom with that? We're not just taking FTSE All World
23 All Cap, the one year benchmark and adding 150 basis
24 points with a quarter lag.

25 INTERIM CHIEF OPERATING INVESTMENT OFFICER

1 BIENVENUE: So, Ms. Olivares, it's the global equity
2 benchmark. As we've discussed, it's the idea of taking
3 what we can get --

4 COMMITTEE MEMBER OLIVARES: Yeah.

5 INTERIM CHIEF OPERATING INVESTMENT OFFICER

6 BIENVENUE: -- in the public markets relative to the
7 privates. Our public markets benchmark is a custom
8 benchmark, customized for the capitalization levels it
9 goes into, what countries it includes, all of those kinds
10 of things. So it's not the off-the-shelf FTSE. It's the
11 customized version of the FTSE.

12 One of our other customizations is X tobacco and
13 some of the other topics that are in there.

14 COMMITTEE MEMBER OLIVARES: So if I look at the
15 one year FTSE All World All Cap, it's 11.92 for one year.

16 MR. HARTT: So part of -- part of what's causing
17 some discussion, maybe not confusion, but -- is something
18 we call endpoint issues. So this is -- this return that
19 we have for the FTSE All World 4.4 is based upon it's a
20 March to March performance.

21 COMMITTEE MEMBER OLIVARES: Sure.

22 MR. HARTT: And if you recall, there was that
23 period in December where that return had been
24 substantially decreased and then came back. If you looked
25 at a different set of 12 months, so June to June, it will

1 come up with a different number.

2 COMMITTEE MEMBER OLIVARES: Um-hmm. I'm looking
3 at March 31st, 2019 report, so it's a year over. And then
4 I just looked at an October report, and I looked at MSCI.
5 I've looked at Cambridge. So I've looked at three
6 different benchmarks, right? So there's FTSE, there's
7 MSCI --

8 MR. HARTT: Yep.

9 COMMITTEE MEMBER OLIVARES: -- All World All Cap,
10 that one year is 12.58. Cambridge uses Wilshire 5000
11 Plus, that's in the 12 range too. So I'm really trying to
12 understand. And this is just like public equities, right?
13 That doesn't include the illiquidity premium. I don't
14 know how we get from a range of around 12, which should be
15 plus 150, or 300, for illiquidity, to 4.

16 MR. McCOURT: Yeah, I think we'll have to go and
17 look at the data. According to this, the FTSE -- the
18 custom FTSE benchmark was up 3. -- 2.9 percent.

19 COMMITTEE MEMBER OLIVARES: But, yeah, you're
20 saying custom -- So are we -- is there some type of
21 discount factor that we're using or -- I don't understand.

22 MR. McCOURT: No. It's just -- it's just
23 customized for some of the specific constraints and
24 exposures that your Global Equity Policy has. But the
25 custom benchmark shouldn't differ materially from the

1 off-the-shelf benchmark. It's going to be very, very
2 close.

3 COMMITTEE MEMBER OLIVARES: So you mention the
4 constraints. So it's customized for the constraints. But
5 when we're talking about customization, are we talking
6 about a discount factor that's being applied?

7 MR. McCOURT: No.

8 COMMITTEE MEMBER OLIVARES: No. Okay.

9 INTERIM CHIEF OPERATING INVESTMENT OFFICER

10 BIENVENUE: So Ms. Olivares, I think we'd have to see your
11 data. What this is saying is that the FTSE All World --

12 COMMITTEE MEMBER OLIVARES: Um-hmm.

13 INTERIM CHIEF OPERATING INVESTMENT OFFICER

14 BIENVENUE: -- without the constraints from March 31st of
15 2018 to March 31st of 2019 earned 4.4 percent. I'm sorry,
16 earned 2.9 percent would be what the --

17 COMMITTEE-MEMBER OLIVARES: Um-hmm.

18 INTERIM CHIEF OPERATING INVESTMENT OFFICER

19 BIENVENUE: -- global equity benchmark earned. Our
20 customization caused us to earn 2.5 percent. And that's
21 why the FTSE All World plus 150 was 4.4. And the FTSE --
22 or the CalPERS custom benchmark was four percent.
23 That's -- again, that's 150 basis points in excess of what
24 the public markets earned.

25 COMMITTEE MEMBER OLIVARES: Yeah. So I want to

1 make sure we're comparing apples and apples, because when
2 I pull up the one year it's -- I'm getting a different
3 number, and same for MSCI.

4 MR. HARTT: Yep. So just one other thing here.
5 On that custom policy benchmark, that four percent, is
6 actually composed of three quarters of the FTSE plus the
7 150 and one quarter of the old policy benchmark, which was
8 a mix of two FTSE benchmarks, right?

9 So there might be a little bit of a difference.
10 So if you look in the -- the second line of the second
11 bullet point, "The previous benchmark blend of FTSE U.S.
12 plus FTSE All World X U.S. plus three percent. So there
13 was one quarter -- for this particular time period,
14 there's one quarter that was of that previous benchmark
15 and three-quarters of the FTSE All World All Cap.

16 So I believe that the 40 basis point difference
17 between the FTSE All World 150 and the policy benchmark is
18 likely explained by that.

19 COMMITTEE MEMBER OLIVARES: I want to make sure
20 I'm understanding. So again in the second footnote, I see
21 that the current policy benchmark is a custom FTSE All
22 World All Cap plus 150 basis points, lagged by a quarter.
23 But the previous benchmark was a blend of FTSE U.S., plus
24 FTSE All World X U.S., plus three percent lagged one
25 quarter from September 2011 to June 2018.

1 MR. HARTT: Correct.

2 COMMITTEE MEMBER OLIVARES: So that's what you're
3 talking out.

4 MR. HARTT: Right.

5 COMMITTEE MEMBER OLIVARES: So there's a part of
6 it that overlaps.

7 MR. HARTT: There is one quarter that was
8 overlapped for that. So there's three quarters of the new
9 one, one quarter of the old one.

10 COMMITTEE MEMBER OLIVARES: Thank you.

11 I believe it was in our last meeting, where we
12 talked about the illiquidity premium, right? And I
13 understand that other pension funds have an illiquidity
14 premium of 300 basis point, sometimes up to 500. I'm
15 trying to understand why we're at 150?

16 MR. HARTT: So there are a couple things. So we
17 had talked about looking to align the capital market
18 assumptions with the benchmarking process. And the
19 capital market assumption has, for a long time period,
20 expectation of private equity outperformance of about 150
21 basis points. So that's getting the alignment between the
22 capital market assumptions and the benchmarking so that
23 that kind of makes sense together, rather than having them
24 being not coming together.

25 MR. McCOURT: And just to add, I would say

1 historically the industry standard was a premium of around
2 300 basis points. That's changing rapidly. So funds are,
3 like yourselves, adopting lower premium levels today, both
4 to align the private equity benchmark with your
5 forward-looking expected returns, and also to address some
6 of the challenges that Ben mentioned about all asset
7 classes being priced higher, meaning forward-looking
8 returns are lower than they were historically.

9 COMMITTEE MEMBER OLIVARES: And the 150 basis
10 points, is that sufficient, not just for illiquidity also,
11 but for the due diligence, right? There's a lot more due
12 diligence that goes into private equity. There's a lot
13 more monitoring.

14 MR. McCOURT: Yeah.

15 COMMITTEE MEMBER OLIVARES: It's much more
16 expensive, right, because it's not publicly traded.

17 Do you feel like that 150 basis points adequately
18 captures the illiquidity, and the additional cost of due
19 diligence, and the risk?

20 MR. McCOURT: Our judgment is yes, it does,
21 particularly for a fund of the size of CalPERS, which is
22 able to kind of smooth out those expenses across a larger
23 asset base. The expectation for returns is 150 basis
24 points net of all fees and costs, et cetera.

25 And we think that's a reasonable expectation and

1 one that compensates the investor appropriately for
2 additional risks and illiquidity for the asset class.

3 COMMITTEE MEMBER OLIVARES: Thank you.

4 CHAIRPERSON FECKNER: All right. Seeing no other
5 requests, anything else?

6 MR. HARTT: Nothing at this time. Thank you.

7 CHAIRPERSON FECKNER: Very good. Thank you.

8 Before we go onto the next item, we're going to
9 take a 100-minute break for the court reporter. So we'll
10 reconvene at 11:25.

11 (Off record: 11:15 a.m.)

12 (Thereupon a recess was taken.)

13 (On record: 11:25 a.m.)

14 CHAIRPERSON FECKNER: If we could please take our
15 seats.

16 Thank you. We're back on Item 10a, Ms. Crocker.

17 INVESTMENT DIRECTOR CROCKER: Kit Crocker,
18 CalPERS Investment Office staff.

19 Item 10a is a first reading of staff's proposed
20 updates to the private equity and Real Assets Program
21 policies arising out of this year's annual reviews.

22 For private equity, staff proposes to amend the
23 definition of customized investment account in terms of
24 the elements to be considered in selecting the GP. Now,
25 the problem here is with the implication that this is an

1 exhaustive list. We're not proposing eliminating the
2 requirements of appropriate expertise. Simply -- it's
3 Simply the point that to provide a partial list is too
4 restrictive and implies that other forms of expertise
5 might not be considered validly.

6 As regards to the Real Assets Program Policy,
7 there are two primary substantive changes. First, the
8 expression of staff's authority at the program level, that
9 is to say at the Real Assets Program level, rather than at
10 each of the three individual portfolio levels.

11 And second, the proposed relocation of the
12 program's specific leverage constraints to policy-related
13 procedures. This is consistent with the centralization of
14 leverage management at the total fund level, already I
15 think blessed in concept by the Board at the September IC.

16 Now, since this is a first reading, we're looking
17 for input from the Committee, so I will pause there and
18 ask if -- invite Wilshire to comment.

19 MR. TOTH: Thank you. Tom Toth with Wilshire
20 Associates.

21 I'll just make a couple of comments on the
22 substantive changes. And first to start with the
23 definition of the customized investment account. I think
24 it's very important to emphasize that this is not meant to
25 soften the underwriting standards for those investment

1 implementation vehicles. It's really to provide more
2 flexibility in terms of the facets which are considered
3 when deciding whether or not a customized investment
4 account is appropriate.

5 One example, and I thought it would be helpful to
6 bring forward for a facet, which is not in the industry
7 geographic or style expertise, list is strong deal flow.
8 You might look for a manager that brings interesting or
9 attractive deals to the table. So that's just one example
10 of a facet, which is not included there, so I think that's
11 important to point out.

12 I think the key word, as we talk about some of
13 the other changes, is implementation flexibility. That's
14 really what you're looking to provide in order to
15 ultimately enhance returns. So that's what's behind the
16 changes in the delegated limits. The -- including all of
17 them in one aggregate level and then allowing staff to
18 decide where to implement on a cumulative basis those
19 commitments across the underlying portfolios, whether that
20 be in real estate or whether that be in infrastructure.

21 And then lastly, the adjustment or the removal of
22 the leverage limits constraints. I think the important
23 point there is that this really is maintaining the status.
24 The limits which are being moved from the policy into the
25 PRPs remain the same. So we don't expect that to have an

1 impact on the strategic risk level of the implementation
2 of those parts of the portfolio.

3 So all of that said, we're comfortable with the
4 changes and would appreciate any feedback that the
5 Investment Committee has to provide.

6 CHAIRPERSON FECKNER: Thank you.

7 Ms. Yee.

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

9 I appreciate the explanation about the revision
10 with respect to the customized investment act GPs. And I
11 guess since this is first reading, I wanted to just ask,
12 if you could just go back and kind of read it to be sure
13 it really kind of highlights that this is not at the
14 expense of expertise and experience, and that this is
15 really more for flexibility. Because I think the way I
16 read it -- and I'm happy to go back and read it again, but
17 it just seemed like -- it left me thinking why wouldn't we
18 want to have the most experienced, you know, people
19 working with us, and regardless of the PPO?

20 And so if we could just kind of review for that
21 maybe tone or emphasis, I would appreciate that.

22 INVESTMENT DIRECTOR CROCKER: Yes. Happy to.

23 COMMITTEE MEMBER YEE: Okay.

24 CHAIRPERSON FECKNER: Thank you.

25 Mr. Jones.

1 COMMITTEE MEMBER JONES: Yeah, thank you, Mr.
2 Chair.

3 Yes, my comment -- question rather is on
4 attachment two, page four of eight. And it's the removal
5 of the -- "The staff shall report concerns, problems,
6 material changes...", et cetera, "...to the Committee as
7 soon as possible". "At least at the next Committee
8 meeting" is deleted. Where did it go?

9 INVESTMENT DIRECTOR CROCKER: Yes. We've been in
10 the process of removing the redundant references to that
11 requirement from the program policies, as we discussed, I
12 think. And it is now going to exist solely in the Total
13 Fund.

14 COMMITTEE MEMBER JONES: Okay.

15 INVESTMENT DIRECTOR CROCKER: So there is one
16 expression of that requirement and it exists in the Total
17 Fund Investment Policy.

18 COMMITTEE MEMBER JONES: Okay. So the policy
19 didn't change, it's just being moved.

20 INVESTMENT DIRECTOR CROCKER: Correct.

21 COMMITTEE MEMBER JONES: Okay. Thank you.

22 CHAIRPERSON FECKNER: Ms. Brown.

23 COMMITTEE MEMBER BROWN: Thank you. I knew that
24 was your answer to that question I was going to ask the
25 same as Mr. Jones. And then I do want to piggyback on

1 what Controller Yee said, which is when I read it, it
2 looked like we were saying we weren't focused on
3 expertise, or experience, or special skills.

4 INVESTMENT DIRECTOR CROCKER: Right.

5 COMMITTEE MEMBER BROWN: And so it looked like
6 why are we saying we don't need that. So let's take a
7 look at how that's worded.

8 Thank you.

9 CHAIRPERSON FECKNER: Thank you.

10 Ms. Olivares.

11 COMMITTEE MEMBER OLIVARES: Thank you.

12 I want to understand more about the customized
13 investment -- or the CIA, customized investment account
14 and what's happening with not focusing on just those funds
15 that are top quartile?

16 MR. TOTH: I'll take a first stab at that, Ms.
17 Olivares. I think the primary goal there is not to limit
18 the opportunity set to those that have had top quartile
19 returns. The idea being that by limiting it to those who
20 have done well, you might miss out on opportunities for
21 managers who are going to do well going forward. So while
22 the performance track record is absolutely going to
23 continue to be a part of the due diligence process, by
24 not -- the goal of eliminating that statement is not to
25 just focus attention on those who have done well in the

1 past.

2 COMMITTEE MEMBER OLIVARES: I understand that.
3 But does that also leave room to go after bottom quartile
4 or is there some type of safety mechanism around that?

5 MR. TOTH: So it does leave room, because you are
6 eliminating that. But to -- I think it's important to
7 point out that the due diligence and the underwriting that
8 the team goes through is undoubtedly going to continue to
9 utilize the track record and the results as part of the
10 due diligence process, but not by policy, limiting it to
11 top quartile managers.

12 COMMITTEE MEMBER OLIVARES: So the request is to
13 have the policy read basically that we could pursue a fund
14 regardless of quartile?

15 MR. TOTH: Past quartile rankings, that's right.

16 COMMITTEE MEMBER OLIVARES: And how is that
17 handled by other pensions?

18 MR. TOTH: I think the way I would describe it,
19 and I'd be happy to get input from the other consultants
20 and staff, past performance is always going to be part of
21 the underwriting, the due diligence process, and the
22 attribution of how any Private Equity Group or private
23 real asset group has driven results, who's responsible for
24 it, over what time period, what did the market look --
25 environment look like when that was done?

1 And so I think that is still going to be part of
2 the process, but it's just not pre-defining what the
3 universe is going to start with just those top quartile
4 managers.

5 COMMITTEE MEMBER OLIVARES: So I'd like to better
6 understand the risk associated with this. So assuming we
7 have the highest performing team possible, due diligence
8 was done perfectly, what are the risks, if that's not in
9 place?

10 MR. TOTH: I think implementation of private
11 equity and private real assets is the difference between
12 success and failure candidly. The median return for a
13 private equity manager is not materially different from
14 what you would get in public markets. So implementation
15 is absolutely key. So I think having a strong team in
16 place is going to be one of the critical drivers of
17 success for the portfolio.

18 COMMITTEE MEMBER OLIVARES: I'm sorry. I should
19 clarify, in terms of changing the policy. So if the
20 policy is changing from focusing on funds that have had
21 top quartile returns and eliminating that portion, so that
22 no quartile is being targeted, we could go to bottom
23 quartile, what are the risks associated with that policy
24 change?

25 MR. TOTH: I don't think there's an increase in

1 risk associated with that policy change, because, as we
2 oftentimes see, those better performing managers have some
3 mean reversion or they get too big for their own good, so
4 to speak, and therefore, don't necessarily provide the
5 same level of returns that they had in the past. So
6 again, I think it comes back to the diligent underwriting
7 standards that the team brings to bear when evaluating the
8 opportunity set.

9 And again, keeping in mind that part of that
10 diligence incorporates analysis of the track record. So
11 this isn't to say that track record no longer matters.
12 It's just not a limiting point for the initial universe.

13 COMMITTEE MEMBER OLIVARES: Would you recommend
14 additional language or safeguards around this change in
15 policy?

16 MR. TOTH: I think this is sufficient. And one
17 other point, which hasn't been made, and it's mentioned, I
18 think, in both Meketa's opinion piece, as well as in
19 staff's, is that each of these opportunities comes along
20 with a prudent person opinion, so another set of eyes, so
21 to speak, on the establishment of these types of
22 implementation vehicles. So that's another safeguard to
23 your point about what does this due to the risk of
24 implementation within private equity.

25 COMMITTEE MEMBER OLIVARES: Thank you.

1 MR. TOTH: You're welcome.

2 CHAIRPERSON FECKNER: All right. Thank you.
3 Seeing no other requests, anything else, Ms. Crocker?

4 Okay. Thank you.

5 Brings us to Agenda Item 11. 11a is the
6 Affiliate Trust. Mr. Meng.

7 CHIEF INVESTMENT OFFICER MENG: Yes, Mr. Chair,
8 so this is about the fixed income benchmark update for the
9 Affiliate Funds. With that, I will call my colleague Eric
10 Baggesen and Christine Reese.

11 CHAIRPERSON FECKNER: Just a second. Before we
12 go there, Mr. Darby had requested item 10a. I'm sorry. I
13 missed that.

14 Mr. Darby, please come forward.

15 MR. DARBY: Al Darby, President RPEA.

16 I preface this session with the statement that I
17 have consulted an expert -- an expert in CalPERS investing
18 to elicit this response related to the current item of
19 discussion.

20 One of the provisions that I believe it's in
21 attachment two eliminates the number two provision, which
22 is, "Staff shall report concerns, problems, material
23 changes, and all violations of policy. These reports
24 shall include explanations of any violations and
25 appropriate recommendations for corrective action at the

1 next Committee meeting or sooning -- or sooner, if deemed
2 necessary". And that has been replaced with less
3 stringent language and it eliminates -- further eliminates
4 or diminishes Board oversight.

5 So again, this is an issue of these proposals
6 that continue to erode Board oversight and the actions of
7 the staff.

8 Thank you.

9 CHAIRPERSON FECKNER: Thank you. 11b please --
10 or 11a, I'm sorry.

11 MANAGING INVESTMENT DIRECTOR BAGGESEN: Okay.
12 Good morning. Eric Baggesen.

13 CHAIRPERSON FECKNER: Before you get started, Mr.
14 Jones wants to make a comment.

15 COMMITTEE MEMBER JONES: Yes. I think it's
16 important, Mr. Chair, that that question that Mr. Darby
17 raised about it's being eliminated, that question was
18 raised a few minutes ago, and it was responded that it was
19 not being eliminated. It's being moved to another
20 section.

21 CHAIRPERSON FECKNER: Correct. I think we all
22 heard that --

23 COMMITTEE MEMBER JONES: Yeah.

24 CHAIRPERSON FECKNER: -- more than once today
25 that it's just been moved to the Total Fund Performance,

1 not individual, so we eliminate the redundancy.

2 Thank you.

3 MANAGING INVESTMENT DIRECTOR BAGGESEN: Okay.

4 Good morning.

5 CHAIRPERSON FECKNER: Good morning.

6 MANAGING INVESTMENT DIRECTOR BAGGESEN: Eric
7 Baggesen, Managing Investment Director for Trust Level
8 Portfolio Management.

9 Agenda Item 11a is an information item that seeks
10 to provide the Board with a bit of understanding about how
11 some benchmark changes that were made to the CalPERS Fixed
12 Income Benchmark in relations to the PERF, the Public
13 Employees' Retirement Fund. And those changes were made
14 this past summer.

15 There's implications for some of these benchmark
16 changes, because we actually have shared benchmarks that
17 exist not only for the PERF, but are also used for some of
18 the affiliate funds. So my colleague, Christine Reese, a
19 Investment Director within the Global Equity Program will
20 get into a few of the specifics about that.

21 But the other point that I wanted to make in
22 relation to this agenda item was that this item was
23 created really at the advice of Wilshire Associates. And
24 Wilshire is demonstrating, in essence, their oversight or
25 their judgment about what types of items need to be

1 brought to the Board. And this was a question that came
2 up this past, well, I think two Board meetings ago. A
3 question was asked about how Wilshire uses their judgment
4 and when do they choose to bring information or make the
5 Board aware of a body of information that they think is
6 important for this Board to understand.

7 And this is an example basically where this
8 agenda item has been created because Wilshire believed
9 that this was a piece of information that you as Board
10 should be aware of.

11 So I wanted to acknowledge that reality. And we
12 have Andrew Junkin here as well from Wilshire Associates
13 basically that can answer any questions or provide any
14 other commentary that he has. So I think with that, I'll
15 just turn it over to Christine though to go through the
16 specifics.

17 INVESTMENT DIRECTOR REESE: Thank you, Eric. And
18 good morning -- afternoon, I'm not sure exactly where it
19 is -- Mr. Chair and members of the Committee. Christine
20 Reese CalPERS team member.

21 So as Eric mentioned, this item is to provide you
22 with some information about the Affiliate Funds' Fixed
23 Income Long Liability Benchmark. As he mentioned, when
24 the changes were made to the PERF benchmark, this is a
25 shared benchmark, and so those changes were also made to

1 the Affiliate Funds.

2 At that point when that was known, we looked to
3 analyze the effect of those changes for the Affiliate
4 Funds and the appropriateness of that change. And in
5 working with the various investment teams, as well as with
6 Wilshire, we believe that the rationale for the benchmark
7 change applies both to the PERF and the Affiliate Funds.

8 In the analysis that was performed for the PERF
9 benchmark, both TIPS and agency debt, which are being
10 removed from the benchmark, were found to reduce both
11 liquidity and equity risk diversification. So removal of
12 these two asset types should improve both of -- both of
13 those measures.

14 The inflation protection element for the
15 Affiliate Funds will be fully addressed in the TIPS Asset
16 Class. So each Affiliate Fund asset allocation has a
17 distinct TIPS asset class.

18 And lastly, I just wanted to say that we have
19 worked closely with Wilshire Throughout this process to
20 ensure that this benchmark is appropriate. And at this
21 point, I'll turn it over to Andrew for a few comments.

22 MR. JUNKIN: Thank you. Again, I'll be brief.

23 As Christine covered, this is something that we
24 discussed. Honestly, this came down to a question of
25 materiality, right? And so we've had some questions, as

1 Eric noted, over the past few months what rises to the
2 level of materiality. From a risk and return standpoint,
3 this does not rise to the level of materiality, because it
4 was a fraction of a segment within the Affiliate Funds.
5 And the purpose of -- the inflation protection purpose of
6 having TIPS in the portfolio was already addressed with a
7 separate allocation to TIPS.

8 We just felt it was appropriate to bring this to
9 your attention, that this was a follow-on action to the
10 action that you took to remove TIPS and agencies from the
11 Global Fixed Income Index and therefore portfolio for the
12 PERF that it follows through to the Affiliate Funds.

13 So that's it. Not trying to make too big a deal
14 out of it, but it was something that we wanted to have
15 flagged for your attention.

16 CHAIRPERSON FECKNER: Thank you.

17 Any requests?

18 Seeing no requests -- oh, here we go. Ms.
19 Olivares.

20 COMMITTEE MEMBER OLIVARES: Sorry. I have one.

21 So I get it's focusing on treasuries, taking out
22 TIPS, taking out agency debt. How does this affect the
23 overall number, just out of curiosity? What benchmark
24 number do we see now when we exclude those?

25 INVESTMENT DIRECTOR REESE: I'm not exactly sure

1 I understand the question.

2 COMMITTEE MEMBER OLIVARES: Well, this changed
3 the benchmark number, right? So, I mean, TIPS is
4 obviously lower. So I'm wondering if it will reduce it a
5 certain amount.

6 INVESTMENT DIRECTOR REESE: In terms of risk and
7 return?

8 COMMITTEE MEMBER OLIVARES: Yes.

9 INVESTMENT DIRECTOR REESE: So removing TIPS and
10 the agency debt should -- and replacing it with treasuries
11 should increase both the return and the risk nominally.

12 COMMITTEE MEMBER OLIVARES: Thank you.

13 INVESTMENT DIRECTOR REESE Um-hmm.

14 MR. JUNKIN: I think when we looked at this at
15 the -- at the PERF level, it was maybe a basis point of
16 expected return.

17 COMMITTEE MEMBER OLIVARES: Um-hmm.

18 MR. JUNKIN: So I would call -- on a forecasted
19 ten-year basis. So I would call that well within the
20 estimation error window.

21 COMMITTEE MEMBER OLIVARES: Thank you.

22 CHAIRPERSON FECKNER: All right. Thank you.
23 Seeing no other requests. Thank you very much.

24 That brings us to Item 11b, Mr. Meng.

25 CHIEF INVESTMENT OFFICER MENG: Yes, Mr. Chair.

1 Good afternoon, members of the Investment Committee.

2 As you may recall, that in 2016 calPERS adopted
3 the first five-year strategic plan for sustainable
4 investments. And this agenda item is to give you a
5 progress update to date.

6 And as a long-term investor, climate risk and
7 long-term sustainability for our fund are of paramount
8 concerns to us. Sustainability for CalPERS means
9 repeatability of investment returns. We need those
10 returns to fulfill our fiduciary duty and to pay benefits
11 to millions of Californians, not just now, but for
12 generations to come. So that's why climate change is an
13 investment issue for us.

14 We also recognize that although we are the
15 largest defined benefit pension fund in the U.S., the
16 scale and complexity of climate change requires that we
17 work together with investors, policymakers, regulators
18 around the world.

19 When compared to our global peers, the reality of
20 our fund imposes additional challenges for us, such as our
21 lower-than-desired funded status, our seven percent return
22 target, and our need to pay out about \$24 billion in
23 benefits every year.

24 And not only we have a current liability of about
25 \$24 billion a year, it is important to note that the

1 dominant source, about \$0.60 of every dollar for that \$24
2 billion comes from investment returns. We need those
3 investment returns now and in the future.

4 If the market fails us, or we miss our targets,
5 the hard working people of California and the employers
6 take on the financial burden. Thus, everything we do must
7 be 100 percent aligned with generating the needed returns.

8 As such, we encourage our stakeholders to take
9 our unique challenges into consideration, and at the same
10 times we would like to assure our stakeholders that
11 everything we do is 100 percent aligned, and we are 100
12 percent focused on generating the needed returns.

13 For non-stakeholders, such as outside parties,
14 who do not bear the financial risk of our fund, but
15 advocate using our fund to take actions beyond the scope
16 of our fiduciary duty, and advocate using our fund to
17 advance their agenda, we ask that they respect our
18 fiduciary duty, acknowledge the aforementioned unique
19 challenges we face, and appreciate the fact that even with
20 our constraints and unique challenges, we continue to lead
21 on climate change initiatives on a global scale.

22 We're proud to have co-founded Climate Action
23 100+, to have released a detailed and a comprehensive
24 document on our real estate energy automization program,
25 to have joined the Net Zero Asset Alliance, and to have

1 released the fiscal risk of climate change, which we call
2 PROCC, which is the first of this kind of report.

3 We are also staunch supporters for the Paris
4 Agreement and carbon pricing. The least of our
5 accomplishments and examples of our global leadership do
6 not stop here and will continue our work in engaging and
7 advocating. But given our fiduciary duty and unique
8 challenges we face, we cannot and we do not compromise on
9 our investment underwriting. Now, we will wake and
10 constrain itself to a limited set of investment
11 opportunities.

12 So with that providing a context, I will turn it
13 over to my colleague Anne Simpson, Beth, and Simiso to
14 discuss the agenda item.

15 (Thereupon an overhead presentation was
16 presented as follows.)

17 CHAIRPERSON FECKNER: Very good. Thank you.

18 INVESTMENT DIRECTOR SIMPSON: Thank you very
19 MUCH, Ben. Anne Simpson, CalPERS.

20 INVESTMENT DIRECTOR SIMPSON: My first request,
21 as a -- showing our team work, is for Ben to pass the
22 clicker down.

23 (laughter.)

24 INVESTMENT DIRECTOR SIMPSON: There you areI.
25 This is how we work together.

1 Thank you.

2 So, good morning. I think we're still in the
3 morning, Board members. This is the midway point of the
4 CalPERS strategic plan on sustainability. And given that
5 we have so many new Board members, a few for whom this is
6 a trip down memory lane, we thought today it would be
7 helpful to recap how the strategic plan got put together,
8 how the priorities were selected, what the evidence was
9 that this is how we achieve our risk-adjusted returns, and
10 give you a progress report on two of the highlights, one
11 being climate change, referencing Ben's comments and also
12 diversity and inclusion. Now, there's a lot more, so what
13 we've done is embed some links into the agenda item, so
14 that you can look at the wonderful progress on
15 integration, which Beth is leading, other areas of work,
16 which Simiso is leading, and also learn more about the
17 policy and advocacy.

18 --o0o--

19 INVESTMENT DIRECTOR SIMPSON: So tease are our
20 topics in this item. We'll have a quick overview of the
21 strategic plan itself. We'll also going to introduce a
22 new organizational structure that has been adopted, which
23 has been intended to strengthen the execution of the
24 priorities that the Board agreed, the update, and then
25 we'll finish just by looking at the question of

1 on return.

2 And this is obviously quite a few years ago now,
3 but we decided to take the bold step that what we needed
4 to do is have an independent review of the academic
5 evidence. And we called this the Sustainable Investment
6 Research Initiative, or we called it SIRI for short. And
7 I think Apple forgive us, but I do think we got there
8 first

9 So Siri, which is on the website, and you can
10 take a look at the papers. I used a team of academics
11 based in Columbia and also nearby at UC Davis - finance
12 professors chiefly - to look at the great range of
13 research that had been published in respectable academic
14 journals.

15 We do chose the decision not to look at material
16 from the market, because there's always some influence
17 there. We thought we've got to be very rigorous. So the
18 SIRI review covered nearly a thousand papers. And that
19 highlighted a number of areas that either were very
20 consistent with the risk and return objectives of CalPERS,
21 or had some suggested areas for us to work on, and some
22 areas where it really wasn't clear whether we had the data
23 to take a position.

24 But there was some insight from our own
25 experience and some leading examples, where we thought we

1 could move forward. And it was in that spirit of wanting
2 to be based on evidence, wanting to be grounded in
3 economics, that the -- that the Board really began to
4 think about developing a strategy.

5 The work that we did through the famous SIRI fed
6 into the Investment Beliefs and really helped the Board
7 craft the language around sustainability that you'll find
8 in the Investment Beliefs. And also, it helped us take a
9 bigger hold of what were then over 100 pages of the
10 CalPERS Governance Principles. Through that process, we
11 brought them down to around 30 pages, a little more
12 reasonable to get through, and also structured them around
13 what we'd found in this research review.

14 --oOo--

15 INVESTMENT DIRECTOR SIMPSON: So what happened
16 next? Well, you'll like the old fashioned light bulb. Of
17 course, this is an Edison light bulb. That's very -- you
18 know, very old. Very old now. We're all on LEDs. But
19 the planned development began and it went through and
20 iterative process of workshops, discussions, Board
21 meetings, and input with the Board.

22 The plan was developed in 2015. That was an
23 important year for CalPERS, because it's also the year of
24 the Paris Agreement. And the plan was then approved in
25 August of 2016. And actually, CalPERS won a big prize for

1 doing this work, because at that stage we were the only,
2 if not one of very few plans, which had decided to adopt a
3 strategy.

4 Why does that matter? Well, a strategy says you
5 have to identify your goals. It also has key performance
6 indicators. It has timelines and check-in points, where
7 you're going to course correct and make changes of -- you
8 know, based on what you've learned as you've gone along.

9 So I think we won the Responsible Investor Global
10 Award for Industry Leadership and Innovation for adopting
11 the plan, which CalPERS was very proud of.

12 2019, earlier this year, Beth and Simiso gave you
13 an update, which we've given you a link to in March. And
14 the five-year plan that we have is intended for the KPIs
15 for the five years to be all completed. Some of them are
16 very demanding, but I think we're in good shape. Some of
17 the issues that we're dealing with go much further out
18 than five years. Climate change is a good example.

19 But this round of the plan we feel confident
20 across the team that we're on track for all of the
21 performance indicators that the plan includes. And we'll
22 all be very glad to give you more insight on that in a
23 moment, if you have questions.

24 --o0o--

25 INVESTMENT DIRECTOR SIMPSON: So let's come back

1 to the Investment Beliefs. Why do these matter? This is
2 really what I see as our compass. It doesn't make
3 decisions. It doesn't tell us where to go. But they --
4 these Beliefs guide the Investment Office in the direction
5 that we need to take, navigating extremely, I would say,
6 treacherous times ahead of us in the financial markets
7 with volatile markets, with a seven percent discount rate,
8 at around 70 percent funding.

9 And when I came in this morning, I was struck
10 that we have a new version of the Pension Buck. And for
11 me this is -- it really sums it all up beautifully. Out
12 of every dollar that we pay, as Ben says, nearly \$0.60
13 comes from the investment returns. So we could not take
14 it more seriously, that managing risk to protect assets
15 and achieving these returns is our fiduciary duty. But
16 it's more than our fiduciary duty, it is something that we
17 are personally and professionally committed to, because
18 taking care of our members is so important.

19 So these Investment Beliefs bring together some
20 ideas. It's, in a way, wrong to just pick out five,
21 because the first Investment Belief is that liabilities
22 must drive what happens with assets and asset allocation.
23 And that really is the Pension Buck, who's going to pay
24 those pensions and what's CalPERS role in that.

25 But the second idea around sustainability is

1 woven right through all of the Investment Beliefs. And
2 there's a good reason for that. Although, we have to be a
3 very short-term investor, because guess what, pensions
4 need to be paid monthly and CalPERS puts out over \$20
5 billion in cash every year. People can't pay the rent
6 without an IOU, they can't go to the grocery store, or buy
7 things for their grandchildren, or pay bills. We've got
8 to have that cash on a monthly basis for the members.

9 So CalPERS, unlike some other investors, is
10 actually quite short term. I mean, we've got to have a
11 section of the assets really directed towards putting
12 those pension payments out every single month.

13 But we're also very long term, because people
14 joining the fund now may have 60, 70 years before their
15 time in retirement ends. So we think of the fund really
16 as perpetual. We're not only long term, we're permanent.

17 So the second Investment Belief really sums that
18 up. It says having this long-term investment horizon is
19 an advantage. It means we can take positions where
20 there's illiquidity or the returns are going to be
21 harvested over a very long period. That's good, but it's
22 also, the Investment Beliefs says, a responsibility. We
23 have a responsibility to advocate with policymakers, with
24 managers, with companies to make sure that that long-term
25 approach is aligned through the market. So that's one

1 Investment Belief that really reflects this thinking about
2 sustainability.

3 There's also number three says that the CalPERS
4 Board's decisions and management decisions will reflect
5 stakeholder views, where that's consistent with fiduciary
6 duty.

7 CalPERS fiduciary duty sits in the California
8 Constitution and there's nowhere higher to go. So
9 ensuring the prudence, the care, minimizing costs to
10 employers that's in the Constitution, that cannot be
11 overridden. But engagement with stakeholders,
12 understanding their perspectives, learning from their
13 insight is very important to CalPERS. And that's why
14 there's an Investment Belief there.

15 Next, this was very innovative in the day.
16 CalPERS states that there are three forms of capital that
17 matter to long-term value creation. There's financial
18 capital, which is, of course, the traditional day job to
19 manage, there's human capital, and there's physical
20 capital. And that's really how CalPERS thinks about ESG.

21 E for us is physical capital, S for us is human
22 capital, and F -- and G is the governance of financial
23 capital.

24 The other two examples are obvious. Risk for us
25 to multi-faceted and climate change is called out as an

1 example. And finally, whether it's internally for
2 CalPERS, or with our managers, or with the companies we
3 invest in, team work is essential, and diversity and
4 inclusion underpin all of that.

5 --o0o--

6 INVESTMENT DIRECTOR SIMPSON: How do we get this
7 done?

8 Well, we identified in the strategic plan three
9 channels. The first is that we need to be able to
10 advocate with policymakers and regulators. Secondly, that
11 we can use our ability to deploy capital to ensure we're
12 engaging with companies and managers. And thirdly, we
13 need to take the relevant elements into our internal
14 investment decision making. And that's where we have our
15 three-legged stool of the strategy, advocacy, engagement,
16 and integration. And all of those we know are going to be
17 more effective if we can work in partnership.

18 --o0o--

19 INVESTMENT DIRECTOR SIMPSON: We have learned as
20 we've gone along, that this is a very big agenda. The
21 strategic plan is very focused with the priorities. But
22 the new organizational structure that we have really
23 allows the executive office to pick up a new role on
24 advocacy and partnerships, which means that there's an
25 enterprise wide approach now with Marcie in the read for

1 INVESTMENT DIRECTOR SIMPSON: We launched -- and
2 thank you, Betty Yee, was there for us at the One Planet
3 Summit to launch this.

4 Climate Action 100 is now the world's largest
5 investor action initiative ever attempted. It has
6 investors representing \$35 trillion in assets. And the
7 companies that we're engaging are more or less equally
8 spread between North America, Europe, and Asia. So it's a
9 very global group.

10 You can look at the website for Climate Action
11 100 to get all the detail. We just published our first
12 report showing some very major carbon emitters agreeing to
13 what we're asking for and the example -- some of the
14 examples are up here, but they're in the oil sector,
15 mining, cement, energy, even Nestlé. So, you know, people
16 who make chocolate biscuits also have a role here in the
17 supply chain.

18 --o0o--

19 INVESTMENT DIRECTOR SIMPSON: The other area --
20 and Ben said earlier how proud CalPERS is of the work that
21 we've been leading in climate change. This has been
22 acknowledged by the media. And I think we're just
23 flagging three examples.

24 The Financial Times, which has recognized Climate
25 Action 100+ as a giant step forwards; the Economist,

1 likewise a very conservative publication and very well
2 respected; and finally, in the mainstream, Time Magazine
3 recognized CalPERS this summer among its list of 15 women
4 leading the fight, alongside Greta Thunberg and Christiana
5 Figueres who was negotiate -- was the coordinator for the
6 Paris agreement.

7 --o0o--

8 INVESTMENT DIRECTOR SIMPSON: So let me now turn
9 to Simiso to give another example of how the CalPERS
10 strategy, the approach that we have, is really generating
11 results.

12 So, Simiso, over to you.

13 INVESTMENT DIRECTOR NZIMA: Thank you, Anne.
14 Good afternoon, the Investment Committee. Simiso Nzima,
15 Investment Director, Global Equities.

16 On diversity and inclusion, the numbers speak for
17 themselves. We have had 53 percent of the companies that
18 we engaged since July 2017 adding a diverse director to
19 their board, so the element of diversity that they didn't
20 have. This is 361 companies of 682.

21 About 200 companies, which we're actively
22 engaging with right now in different stages of engagement,
23 in terms of enhancing their diversity, and again these --
24 we expect that those active engagements will result in
25 additional appointments of diverse candidates to the

1 boards of corporate companies that we are -- we're focused
2 on. And we have actually met the -- one of the KPIs for
3 the S&P 500 where we're looking at least getting oil
4 companies in the S&P 500 to have, you know, at least an
5 element of diversity to have gender diversity on their
6 board.

7 Where the diversity engagements are not working,
8 we've actually used our investor rights to hold boards
9 accountable. So we voted against 255 directors at 97
10 companies just this past proxy season. If you look at
11 last proxy season, that number was 468 directors we voted
12 against 845 companies. So that number is actually coming
13 down, which shows that companies which previously were not
14 open to this idea, they're actually now opening up and
15 doing the stuff that we're asking them to do.

16 --o0o--

17 INVESTMENT DIRECTOR NZIMA: And again, on
18 diversity and inclusion, really our approach is based on
19 the empirical evidence that shows that companies which are
20 more diverse tend to have better financial outcomes,
21 higher innovation, and, you know, better spend on R&D. So
22 this really is about returns. As Ben said at the
23 beginning of this presentation, this is about
24 sustainability of returns.

25 In terms of the media impact, again, a number of

1 this is really a very important recognition for us that
2 our peers see CalPERS leadership.

3 Likewise, on the very tough issues of how we're
4 going to manage data, and targets, and methodologies on
5 climate change, which is really tough stuff, the United
6 Nations Secretary General personally invited our Chief
7 Executive, Marcie Frost, for CalPERS to join the Net-Zero
8 Asset Owner Alliance. Again, CalPERS is the first U.S.
9 fund to join that group.

10 And finally, another sign that the wide range of
11 CalPERS commitment to sustainability is recognized is an
12 invitation for Marcie, CalPERS CEO, to join the Vatican
13 Council on Inclusive Capitalism, which builds on prior
14 work at the Vatican around climate change.

15 So let me leave it there. There are two other
16 slides for you to look at, which give you examples of the
17 partnerships that we have, both as members and as having
18 Board seats, and also with a wide range of regulatory
19 bodies where we sit on the Board. Staff members, like
20 James Andrus and others, are taking board seats and really
21 speaking for CalPERS in the global regulatory arena.

22 So the strategy, the philosophy, that we have is
23 that we have ambition but we're humble. We know that
24 we're in the foothills of a very long climb on many of
25 these issues. But there's a very old saying, which Dan

1 actually has on his email signature box. And it is as
2 follows, "If you want to go fast, go alone. If you want
3 to go far, go together".

4 So the work that we do in partnerships is because
5 CalPERS not only needs to go far, we intend to go far. So
6 I know that Beth, Simiso, Ben and I will be glad to answer
7 any questions that you might have.

8 Thank you.

9 CHAIRPERSON FECKNER: Thank you.

10 Ms. Middleton.

11 COMMITTEE MEMBER MIDDLETON: Okay. Thank you,
12 Mr. Chair.

13 And this is actually -- will be more of a comment
14 than a question. But first, I want to congratulate the
15 team for all the work that you have done. And I think
16 it's incredibly important work that we're doing.

17 Recently, at one of the Board meetings where we
18 heard a discussion on diversity and inclusion, I asked the
19 question as to whether or not those corporate board
20 diversity and inclusion efforts included LGBTQ identified
21 individuals and was very pleased by the response.

22 Shortly thereafter, I attended the National
23 Association of Corporate Directors annual conference.
24 During that conference, there were multiple panel
25 discussions on the question of diversity and inclusion.

1 Not one of those panels included an out LGBT individual,
2 not one of those panels included a discussion of issues
3 around individuals being out as LGBTQ, either on their
4 panel or in their organization, nor did it happen in any
5 of the other discussions of the seminars that I sat in,
6 and I sat in on 13. And in most of those, diversity and
7 inclusion was talked about at least once during the panel.

8 Lastly, Deloitte has done an incredible amount of
9 work, most particularly in establishing long-term metrics
10 on diversity and inclusion. None of those metrics include
11 LGBTQ. If we are going to step up our game in this area,
12 I think CalPERS is going to have to take a lead.

13 Thank you.

14 CHAIRPERSON FECKNER: Thank you.

15 INVESTMENT DIRECTOR SIMPSON: I wanted to --
16 thank you. Anne Simpson -- to say that CalPERS'
17 principles include these various including LGBT in our
18 definition of diversity. And when we were pulling
19 together the refresher on the research, we had a
20 presentation from Credit Suisse on some very important
21 research they'd done around funding indicators for Board
22 members who were out as members of the community and
23 finding that that was associated with improved financial
24 performance.

25 And we'd be very glad to share that with the

1 Board for those who weren't there at the time. But it
2 really bears out I think in intuition or in insight, which
3 is that diverse boards should bring a whole range of
4 perspectives that are going to really help with both risk
5 and return.

6 CHAIRPERSON FECKNER: Thank you.

7 Ms. Taylor.

8 VICE CHAIRPERSON TAYLOR: Yes. Thank you, Mr.
9 Chair. So I want to thank you Ann, Simiso, and Beth for
10 all the work you've done. I've been here since -- if I go
11 back on this since 2014. So I was at the very end of when
12 we put it together. But I'm very appreciative of the work
13 you've done, that you continue to do on this. I'm looking
14 forward, because I know how difficult it is. This is one
15 of the subjects that comes up often when I go to PRI or
16 elsewhere, for having some sort of data reporting, whether
17 that's on climate change, diversity, getting corporations
18 to report back to us. Those -- that information is
19 difficult and I'm aware what of that. And I hope that
20 we -- I know that there are several different data
21 reporting companies that we're looking at.

22 But overall, I know that, as CalPERS is, you
23 know, the norm breaker doing this, I'm hoping that we can
24 come up with a standard across the country. I know they
25 have in Europe sort of. They have -- it's better than

1 ours right now, so I would love to hope -- to see that
2 CalPERS participates in some sort of standard across the
3 country.

4 I also wanted to congratulate Anne because she
5 didn't mention this herself. But Anne Simpson was the
6 woman that was recognized in the Time Magazine, 15 women
7 on climate change. So I wanted to make sure that
8 everybody recognized that.

9 (Applause.)

10 VICE CHAIRPERSON TAYLOR: And finally, I just had
11 a question. So we do a proxy voting season every season.
12 And now we have new SEC rules. Could I get just a high
13 level -- and maybe you haven't had time to look at it
14 yet -- a high level overview of how that makes you -- how
15 that makes you feel like that's going to impact us?

16 INVESTMENT DIRECTOR NZIMA: Thank you. Simiso
17 Nzima, CalPERS staff.

18 So the rules haven't gone in -- you know, right
19 now they're still in the proposal phase.

20 VICE CHAIRPERSON TAYLOR: Right.

21 INVESTMENT DIRECTOR NZIMA: So we'll be
22 commenting on those. But again, I think, you know,
23 they're rules which affect the proxy advisory firms, which
24 will really affect -- in terms of the research that we get
25 from the proxy advisory firms, the timing of that

1 research, and potentially could increase the cost of us
2 acquiring that research, which really does affect the --
3 you know, how we -- we evaluate some of these proxies.

4 Again, we use our own Governance and
5 Sustainability Principles and the Investment Beliefs to
6 make decisions. But we use these -- you know, the proxy
7 advisory firms to really look at the research and point us
8 faster in terms of achieving those -- you know, arriving
9 at those decisions.

10 There's also the potential that it could actually
11 end up resulting in one proxy advisory firm surviving
12 instead of -- there are two main proxy advisory firms
13 which control 90, 95 percent of the market. And if one of
14 them ends up going under, it means really then we have a
15 situation again our costs could go higher or the voting
16 platforms that we use to cast our votes, because again, we
17 use the technology, which is hosted. It's one of the
18 proxy advisory firms. So that's a risk on the research
19 side.

20 Then there's a risk on the shareholder
21 submission. So the two elements to the shareholder
22 submission issue is the increase in the amount of holdings
23 that you should have to submit a shareholder. Right now,
24 it's \$2,000 worth of stock that you've held for one year.

25 With the proposals, that changes that if it's

1 \$2,000 worth of stock held for at least three years. So
2 between 2,000 and 14,999. And then \$15,000 worth of stock
3 held for two years or \$25,000 worth of stock held for one
4 year. That will not probably affect us, but it will
5 affect a lot of other, you know, small investors who've
6 been, you know, really helpful in identifying some of the
7 emerging issues, because again, you know, some of the
8 things which we take for granted now, started as emerging
9 issues and filed by smaller shareholders.

10 That doesn't affect us that much. But there's
11 the issue of resubmitting of shareholder proposals --

12 VICE CHAIRPERSON TAYLOR: Right.

13 INVESTMENT DIRECTOR NZIMA: -- where really right
14 now, if a proposal gets less than three percent the first
15 year, then it won't be eligible to be resubmitted for the
16 next three years. So it is three, six, and ten percent.
17 That's the current -- current resubmission threshold.
18 Three percent first year, six percent the second time it's
19 submitted and ten percent the third time.

20 The proposal is to increase those who say five
21 percent the first year, 15 percent the second year, and 25
22 percent the third year. And that sort of constrain the
23 ability of investors, including us, really, when you think
24 about any emerging issues, because no new emerging issue
25 will get, you know, 25 percent the first time.

1 VICE CHAIRPERSON TAYLOR: Right.

2 INVESTMENT DIRECTOR NZIMA: Most of these issues,
3 even on climate risk reporting in the U.S., you know,
4 they're getting really low shareowner support in the
5 beginning.

6 So these -- these -- there are those issues that
7 we have to think about. But again, there's a comment
8 period. We signed onto the -- a letter from Council of
9 Institutional Investors asking the SEC to increase the
10 comment period from 60 days to 120 days, so that we have
11 enough time to really analyze the impact on this on our
12 ability to be responsible fiduciaries.

13 VICE CHAIRPERSON TAYLOR: Okay. Great. Thank
14 you very much.

15 CHAIRPERSON FECKNER: Thank you.

16 Ms. Paquin.

17 ACTING COMMITTEE MEMBER PAQUIN: Thank you, Mr.
18 Chair. Thank you for this report. We also remember the
19 start of this process, so it's very gratifying to see how
20 well it's been implemented and still more work to come,
21 but glad to see the progress so far.

22 So I had two questions. And the first relates to
23 a couple comments the Controller made earlier this morning
24 regarding diversity with the private asset classes. And
25 we have been such a lead with the public companies. And I

1 recognize it's a different structure -- different
2 ownership structure, governance structure. But is there
3 any thought to using some of the strategies, lessons
4 learned from the public sector in the private sector?

5 CHIEF INVESTMENT OFFICER MENG: If I may, I plan
6 to address this question in closed session this afternoon.

7 ACTING COMMITTEE MEMBER PAQUIN: Okay. All
8 right. Thank you.

9 And the other question I had was I think the new
10 org chart you showed on slide seven. So I'm just curious
11 how this works as far as integrating the partnership work
12 with what Beth does with the integration into the
13 portfolio and what Simiso is doing with engagements and
14 proxies, because I remember a couple years ago, there was
15 the -- a different org chart being implemented then as
16 well to sustainable investments. I think we called it
17 corporate governance at the time. And it was somewhat of
18 a couple of missed opportunities, because it wasn't really
19 flowing from one team to the next team. So how do you
20 plan to ensure that there's no hiccups this time?

21 CHIEF INVESTMENT OFFICER MENG: Yes. So that's a
22 very good question. That's one very first thing we
23 thought about it very hard how to address this potential
24 challenge, one of which, we're going to have a steering
25 committee. So it will be Marcie, myself -- Marcie from

1 the CEO office, myself from the Investment Office, plus
2 Dan Bienvenue, then plus, you know, Beth, Simiso, and Anne
3 will meet regularly to talk about the initiatives from --
4 if we would have three pillars, you know, advocacy,
5 engagement, and integration. So we'll make sure that the
6 collaboration among the three pillars as soon as possible.

7 ACTING COMMITTEE MEMBER PAQUIN: And will we
8 still be nimble enough to respond quickly to certain
9 opportunities that come up with our partnership groups?

10 CHIEF INVESTMENT OFFICER MENG: Yes.

11 ACTING COMMITTEE MEMBER PAQUIN: Sometimes they
12 don't give a lot of time.

13 CHIEF INVESTMENT OFFICER MENG: Yeah, so that's
14 the goal exactly.

15 ACTING COMMITTEE MEMBER PAQUIN: Okay. All
16 right. Thank you.

17 CHAIRPERSON FECKNER: Thank you.

18 Mr. Perez.

19 COMMITTEE MEMBER PEREZ: Thank you. Simiso, on
20 page 11 of 15, the last bullet, you said you voted
21 against -- or we voted against 255 directors. My
22 understanding were that we voted against the appointment
23 or the selection of a director to that board?

24 INVESTMENT DIRECTOR NZIMA: So companies have the
25 annual elections. Most directors are, you know, elected

1 annually to a company board. So we voted against the
2 election of the -- either the chairman of the board or the
3 chairman of the board and the entire nominating and
4 governance committee, because this is a diversity issue on
5 the board -- nomination to the Boards.

6 COMMITTEE MEMBER PEREZ: Okay. Thank you.

7 INVESTMENT DIRECTOR NZIMA: Yes.

8 COMMITTEE MEMBER PEREZ: And then I just want to
9 acknowledge Ben's courage in his opening statement
10 regarding -- reminding -- or his appeal to the public to
11 work within our -- you know, we have to work within our
12 constraints. And we need to earn our returns not so much
13 anything else.

14 Thank you, Ben.

15 CHAIRPERSON FECKNER: Thank you.

16 Ms. Olivares.

17 COMMITTEE MEMBER OLIVARES: Thank you. I'm just
18 curious if there's any correlation that we found between
19 our sustainability -- sustainability strategy and our
20 investment performance?

21 CHIEF INVESTMENT OFFICER MENG: I would say too
22 early to tell. But as Anne mentioned earlier on, in her
23 presentation, when we engaged the comprehensive, the SIRI,
24 the research, the review of all academic studies, with the
25 help from the professors from University of Columbia and

1 UC Davis.

2 We found -- if I remember correctly, we found
3 strong evidence behind G, the ESG, the G part. E and S I
4 believe -- just because of so new, the lack of data. So
5 it's too early to tell.

6 COMMITTEE MEMBER OLIVARES: Thank you. And
7 then --

8 CHAIRPERSON FECKNER: Just a second --

9 COMMITTEE MEMBER OLIVARES: Oh, sorry.

10 CHAIRPERSON FECKNER: -- Ms. Richtman has --

11 MANAGING INVESTMENT DIRECTOR RICHTMAN: I was
12 just going to add one additional thing to -- Beth Richtman
13 Sustainable Investments, which is that, you know, with a
14 lot of our efforts, we haven't fully integrated or we even
15 rolled out sort of significant integration process into
16 our investment decision-making.

17 And we are in the early stages within different
18 asset classes, so it really depends. On real assets, for
19 instance, we have, for several years now, been using the
20 ESG matrix that Paul mentioned to make sure that we were
21 identifying risks to help us achieve better risk-adjusted
22 returns.

23 And also, with the Energy Optimization Initiative
24 he mentioned earlier as well, that's a place where we are
25 actively looking for opportunities to make more money,

1 because we're integrating an environmental sort of
2 opportunity lens related to energy.

3 COMMITTEE MEMBER OLIVARES: That gets to the
4 question I was going to ask, which is, is our
5 sustainability strategy applied across all asset classes
6 in a way that's even?

7 MANAGING INVESTMENT DIRECTOR RICHTMAN: So I
8 would say that our asset class strategies are very
9 different.

10 COMMITTEE MEMBER OLIVARES: Um-hmm.

11 MANAGING INVESTMENT DIRECTOR RICHTMAN: So if you
12 think about global equity, which is index oriented versus,
13 you know -- and also largely internally managed versus
14 private equity, whereas discussed earlier today, we're
15 largely investing through general partnerships and
16 commingled funds, where we have limited governance versus
17 our real assets, where we have very strong governance, as
18 Paul mentioned, and we often have sort of accounts of one,
19 where we're the only client of the general partner. And
20 in some -- that is in some cases.

21 In other cases, we're the only LP in the fund.
22 And so it has to be different, because of those types of,
23 I guess, differences amongst the investment strategies and
24 also the types of assets we're invested in. So, you know,
25 one project we were looking at right now is doing some

1 research on the types of indexes available and what
2 potentially you could think about related to ESG
3 integration. We're still relatively early in that work,
4 but that is something for an index-oriented strategy that
5 you would need to think about versus on a real assets
6 you're looking at individual, you know, chunky investments
7 that may be several hundred million, maybe even a billion
8 dollars that are fixed in a specific environmental and
9 social context in a location that you have to underwrite
10 it in a different way than you would looking at it in say
11 an index.

12 COMMITTEE MEMBER OLIVARES: But is the
13 sustainability strategy applied across all the asset
14 classes or is it not considered in some cases?

15 INTERIM CHIEF OPERATING INVESTMENT OFFICER
16 BIENVENUE: So our Governance and Sustainability
17 Principles are part of the Total Fund's Policy. So they
18 are our principles across the fund. However, the way that
19 they're actually acted on varies asset class by asset
20 class, just because of the nuances of the asset class.

21 CHIEF INVESTMENT OFFICER MENG: So just -- sorry.
22 Just to add onto that. So the answer is yes, it is
23 applied to all asset classes, but exactly the different
24 asset class, the readiness think about either advocacy, or
25 engagement, or integration. The readiness for each asset

1 class along the three pillars are different. So in
2 principle, we -- we are applying to all asset classes.
3 But taking into the uniqueness of each asset class.

4 COMMITTEE MEMBER OLIVARES: I think that would be
5 helpful to see going forward in terms of how we apply it
6 to each asset class. I recognize it's very different in
7 how they're treated.

8 And then just getting back to the -- was it the
9 six pillars, I saw diversity and inclusion -- I'm sorry,
10 six priorities -- for external. But what about internal,
11 are we also prioritizing diversity and inclusion?

12 CHIEF INVESTMENT OFFICER MENG: The answer is a
13 resounding yes.

14 COMMITTEE MEMBER OLIVARES: Thank you.

15 CHAIRPERSON FECKNER: Anything else, Ms.
16 Olivares?

17 COMMITTEE MEMBER OLIVARES: No, thank you.

18 CHAIRPERSON FECKNER: All right. Thank you.
19 Seeing no other -- nothing -- no other requests, anything
20 else on this item?

21 All right. We do have a number of requests from
22 the audience. I'm going to call you up in pairs, two at a
23 time. You'll have up to two minutes to make your comments
24 please due to the large number of requests. And I
25 encourage you to not repeat the person in front of you.

1 Please offer some new comments when you come up.

2 And just please don't read us the status quo
3 email that was sent out. I mean, I got 70 of the exact
4 same thing, so please give us some new information.

5 First, we have Sandy Emerson and Deborah Silvery,
6 if you'd please come forward. The microphones are turned
7 on for you. Give your name and affiliation for the
8 record, please.

9 MS. EMERSON: I'm Sandy Emerson. I'm the Board
10 Chair of Fossil Free California. And we have just
11 released reports showing the effect of staying invested in
12 fossil fuels by three State pension funds, CalPERS,
13 CalSTRS, and Colorado's PERA. Collectively, PERS, STRS,
14 and PERA would have been \$19 billion richer if they had
15 divested from fossil fuels ten years ago. For CalPERS,
16 that's \$11.9 billion, \$5.5 billion for STRS, and 1.77 for
17 PERA.

18 These studies were performed by Toronto based
19 media and analysis firm Corporate Knights. And the
20 methodology for each fund was exactly the same. For the
21 publicly disclosed portions of the portfolio, for the
22 public equities returns were compared on a
23 quarter-by-quarter basis with fossil fuels and without.
24 So it was a comparison of 40 quarters. The portfolios --
25 the return comparison reflected all inflows and outflows

1 to the funds, including dividends and they were rebalanced
2 quarterly.

3 As you know, the UC system recently resolved to
4 divest its endowment and pension funds, \$83 billion worth,
5 resolved to divest from fossil fuels. Staying invested in
6 fossil fuels might make sense if fossil fuel investments
7 were making money, but they've been losing. They've been
8 worst performing sector of the S&P 500 for the past
9 decade. The percent in your portfolio has declined from
10 17 percent ten years ago to about eight percent now. And
11 that's based on a decline in value. The investments that
12 you hold have remained fairly constant. So divesting can
13 improve returns.

14 Thank you.

15 CHAIRPERSON FECKNER: Thank you.

16 MS. SILVEY: I'm Deborah Silvey a CalPERS
17 retiree, a I want to speak to what this Corporate Knights
18 study means for me and each of my fellow CalPERS pension
19 holders. We have been told at the these Board meetings
20 that continued investment in the fossil fuel sector is a
21 sound growth strategy for the present and for the next
22 several years, but this study underscores the extent to
23 which the sector is losing strength.

24 Because of this market decline in the energy
25 sector over the past ten years, CalPERS has lost money for

1 its members by delaying the inevitable shift away from
2 fossil fuel investments. There's a chart on page six in
3 the study that gives a clear picture of the lost value per
4 member. And as you'll see there, it's a very simple
5 chart. There's a -- it's based on an analysis of public
6 security filings over the past ten years. It's estimated
7 that CalPERS would have generated more than \$6,000
8 additional value per member if the fund had divested its
9 fossil fuel stocks, including the entire energy sector
10 along with other securities with more than ten percent
11 fossil fuel revenue.

12 But even if we include a narrower slice of the
13 market, the energy sector plus other securities with more
14 than 50 percent fossil fuel revenue, CalPERS would have
15 generated more than \$4,800 additional value per member had
16 the fund divested.

17 So it's important to note that the report
18 understates the fossil fuel holdings and opportunity costs
19 since it covers only public equities, but not private
20 equities or bonds. For example, BlackRock has lost its
21 clients an estimated \$90 billion over the last decade
22 because of its investments in fossil fuels, according to a
23 report from the Institute for Energy Economics and
24 Financial Analysis.

25 In fact, BlackRock reports a trend toward funds

1 with less fossil fuel exposure is the fastest growing fund
2 for them. So it's time for us to move money to safer
3 investments.

4 Thank you very much.

5 CHAIRPERSON FECKNER: Thank you. Next up is Sara
6 Theiss and Ben Claire.

7 MS. THEISS: Hello. My name is Sara Theiss. As
8 a CalPERS retiree, I'm a stakeholder. I'm also a member
9 of Fossil Free California. As you know, I attend these
10 meetings regularly and regularly comment on the latest
11 developments demonstrating that the fossil fuel industry
12 is in financial decline. Others in FFCA have been doing
13 the same thing for several years.

14 With the report that we released earlier this
15 month, we present additional robust evidence of this
16 decline. The results are consistent among all the three
17 funds studied. They're consistent with an analysis done
18 in the last year of the New York State Retirement Fund, a
19 study done a couple years ago of the Massachusetts State
20 Pension Fund. They're consistent with UC's decision to
21 divest for, as Sandy stated, purely financial reasons.

22 This data is not cherry-picked. It's -- as
23 stated, it's part of a ten year trend. You're free to
24 test the data yourselves, because the data file is
25 available. I think it's in a link to the materials we

1 sent. And the study author is also available. His name
2 is on the press release that we sent. I believe you
3 received individually these -- this material, I think last
4 week and then we sent it to Mr. Feckner and other people
5 at the end of October.

6 So given this, I don't understand why the Board
7 has not yet engaged the staff on this topic. I strongly
8 request that the Board agendaize the topic of continued
9 investment in the fossil fuel industries. If there are
10 reasons not to reallocate the fund in this respect, PERS
11 members such as myself who've contributed to part of the
12 fund deserve to hear. It's time to get answers from the
13 CIO and staff, especially given the fund's concern about
14 PERS' underfunded status.

15 Thank you.

16 CHAIRPERSON FECKNER: Thank you.

17 MR. CLAIRE: Hi there. My name is Benjamin
18 Claire. I'm a fourth year student at UC Davis studying
19 climate change. I'm a future stakeholder and I'm here to
20 emphasize the fact that investing in fossil fuels is
21 simply a bad financial move.

22 As previously mentioned, the U.S. system
23 understands this, as just two months ago UC officials
24 announced divestment from fossil fuels. And I really want
25 to highlight this point.

1 Following the divestment announcement, the UC
2 Chief Investment Officer, Jagdeep Singh published a piece
3 in the Los Angeles Times stating that quote, "We believe
4 hanging on to fossil fuel assets is a financial risk",
5 unquote. He also added that there were quote, "More
6 attractive investment opportunities", unquote in new
7 energy sources, meaning renewables like wind and solar.

8 We know that fossil fuels are causing climate
9 change and this endangers my own future. We know that
10 climate change causes intensified natural disasters, as we
11 saw last year 85 people in California lost their lives
12 from the Paradise wildfires. This is a matter of life and
13 death and divesting from fossil fuels can save lives
14 especially within California.

15 Thank you.

16 CHAIRPERSON FECKNER: Thank you.

17 Next up, Lynne Nitter[SIC] and Costanza Gonzalo

18 MS. NITTLER: Hello. I'm Lynne Nittler. I'm a
19 retired teach of 33 years with health care at CalPERS.

20 Notwithstanding the report that we heard earlier
21 today, I am still incredulous that CalSTRS is invested in
22 fossil fuel stocks at this late date. It is clear that
23 investments in fossil fuels are unwise financially, as the
24 Corporate Knights report shows.

25 The extraction of those fossil fuels is

1 destructive to our land, air, and water. Many communities
2 across our country are left with polluted drinking water,
3 illnesses, and degraded land as the fossil fuel companies
4 move on to new fracking sites. Worst still, fossil fuels
5 release CO2 as they burn, altering our atmosphere. We
6 have literally changed the climate, such that our children
7 have taken to the streets in defense of a livable planet,
8 as Greta Thunberg says, "How dare you".

9 CalPERS prefers engagement over divestment. I
10 suggest it's too late. Engagement ignores -- oh, I'm
11 sorry. The only engagement that will stop the disasters
12 already escalating around the globe is to stop burning
13 fossil fuels, that is stop drilling and mining now.

14 We are already nearing irreversible tipping
15 points. The time you waste on engagement keeps us from
16 making the transition to renewable energy and frankly
17 dooms us. CalPERS is a position to usher in a new era.
18 If you divest the 17.6 percent of your portfolio currently
19 in fossil fuels and invest in clean renewable energy that
20 propels us into a more sustainable future, you lead the
21 way for others to follow.

22 Scientists, some 11,000 of them just last week,
23 give us just ten years to make that shift. So you have a
24 choice, you can lead us to our destruction or to a
25 brighter future. If you have children or care about them,

1 the choice is obvious. What are you waiting for?

2 CHAIRPERSON FECKNER: Thank you.

3 MS. GONZALO: Hi. My name is Costanza Gonzalo.
4 I'm a UC Davis student. I'm studying environmental policy
5 analysis and planning. And I think my colleagues have
6 already mentioned the economic parts of the argument, but
7 I really want to emphasize the moral part of it and
8 emphasize that divesting from fossil fuels is the good
9 path in history. And you all have investment power, which
10 is really powerful in our market and our policy. And I
11 think it's very important to change that to more
12 economically and more of -- morally better choices that we
13 have.

14 And as I'm graduating in June, I want to work in
15 a place that will give me funds later that will protect
16 me. And I don't want to work in a place that doesn't care
17 about my future or my generation. So I really think that
18 divesting in fossil fuels is a very important thing in
19 this problem.

20 So, yeah, thank you.

21 CHAIRPERSON FECKNER: Thank you.

22 Next up, I have Sheila Thorne, and Robert
23 Girwing[SIC], and Christine Nelson. You can all three
24 come forward, please. You're the last three.

25 MS. NELSON: My name is Chris Nelson. I am -- I

1 was -- I'm a retired public health nurse in Butte County.

2 I just wanted to relay to you, I talked about the
3 Camp Fire when I was here in March, as part of my
4 discussion, my input about climate change and what we need
5 to be doing.

6 But, you know, my colleagues who are competent
7 people, who've -- who I worked with for a dozen years and
8 I knew -- I know how great they were, they are now reduced
9 to nostalgia PTSD, spending all of their time on the past.
10 They are -- they're ruined. And they have retirements.
11 They had insurance. They've moved to Oregon. But the --
12 the -- our community people are still living in RVs.
13 There is -- there is still not water for the people of
14 Paradise. There -- you know, it is -- it can't be redone.
15 You can't undue some of these things. And, for me, the
16 only performance indicators that are going to matter is
17 that we -- that we become carbon neutral on CalPERS. The
18 investments that you have really when you talk about
19 course correction and volatility, you need to make the
20 changes. We can't do it for you. And we count on you.
21 We get these rosy announcements for you, but we retirees
22 know what's going on.

23 And this is -- Hagel used a word -- words,
24 dogmatic slumber. That's the problem here. You guys have
25 got to change and you have to not keep patting yourselves

1 on the back for what you've done. You haven't done
2 enough. And we want to see climate change not be as
3 horrible as it's going to be, if people don't wake up and
4 make the movements soon.

5 CHAIRPERSON FECKNER: Thank you.

6 MS. THORNE: My name is Sheila Thorne and I'm a
7 retired member of CFA and also a member of RPEA. And
8 global warming is damaging the earth now at an
9 unprecedented pace, according to the September meeting of
10 the International Panel on Climate Change, even worse than
11 previous projections.

12 Global warming is so far advanced a tipping point
13 has already been reached. They now predict that 100-year
14 floods will become annual events by 2050 in some cities,
15 including Los Angeles and San Diego. Lancet reports that
16 human exposure to fire has already doubled since 2000.
17 And by the end of the century almost all the world's
18 population could be exposed to mosquito-born diseases once
19 limited to the tropics, according to PLS -- PLOS, tropical
20 diseases report.

21 In the face of climate chaos, how can any of us
22 continue on as normal. How can you continue to uphold
23 shareholder engagement when despite years of this policy,
24 U.S. oil companies, trying to grab what they can before
25 being regulated and legislated out of existence, still

1 account for 60 percent of world growth in oil and gas
2 production, expanding four times more than any other Ed
3 and ignoring climate action goals.

4 How can you continue to risk our pensions in
5 fossil fuel industries that are not only destroying the
6 world as we know it, but are losing money? How can you
7 continue to invest in a sector of the economy whose
8 decline is likely to snowball as the world transitions,
9 warns Mark Carney, Governor of the Bank of England,
10 creating financial chaos and bankruptcy rather than invest
11 in an expanding and profitable green future.

12 Please, do your fiduciary duty.

13 CHAIRPERSON FECKNER: Thank you.

14 MR. GIRLING: Good afternoon. My name is Robert
15 Girling. I am a retiree. I'm a legislative
16 representative for the Emeritus Retired Faculty
17 Association and -- Faculty and Staff Association of the
18 California State University.

19 I'm an Emeritus Professor of business
20 administration. And first of all, I wanted to thank the
21 Board and to thank CalPERS for making my retirement
22 possible, and for that check that I get every month, which
23 is due to the fact that you, as a group, and CalPERS as an
24 organization, and the staff, have been so careful and
25 thoughtful with the management of the resources which have

1 been put at our disposal.

2 I've also started something called the
3 Sustainable Enterprise Conference 15 years ago, which we
4 brought together leaders in education, community, and --
5 business and government to talk about opportunities for
6 investment in alternative technologies and so forth in the
7 future.

8 And I think that that's something that I'd like
9 to see CalPERS look more closely at is the issue of
10 alternative forms of investment.

11 I also wanted to share with you some information
12 that was -- I received recently. It's a recently released
13 study. It's called analyzing the financial risk of
14 holding fossil fuel assets in the CalPERS portfolio. It
15 was prepared by Professor Clair Brown's lab at the
16 Institute for Research on Labor and Economics[SIC] at the
17 University of California.

18 And this study documents what we've heard about
19 from some of the previous speakers in terms of the fact
20 that energy is lowest performing sector in the S&P 500
21 with negative returns as opposed to the benchmark return
22 of 355 percent. That's a huge difference. You were
23 talking about benchmarks earlier. And I think that
24 relates to that.

25 CHAIRPERSON FECKNER: Your time is up. Please

1 come to an end.

2 MR. GIRLING: According to the report's
3 projections though, if CalPERS does not remove companies
4 which are heavily invested in fossil fuels, we will be
5 holding potentially stranded assets that both
6 underperform --

7 CHAIRPERSON FECKNER: Can please bring to an end.
8 Your time is time up.

9 MR. GIRLING: -- other investments and contribute
10 significantly to the global carbon emissions.

11 Can I just have one more minute, please?

12 Thank yo.

13 I think it's really important to -- that we as a
14 group -- I mean, we're citizens. We're the people of
15 California, the greatest state in the nation. We have the
16 responsibility to lead. And as citizens, we have the
17 responsibility to take on the challenge and to show other
18 countries what -- and other people across the nation what
19 we can do as a group.

20 I don't want us to make the mistake that was made
21 in terms of failure to divest in PG&E. I think that the
22 future is with alternative energies. I don't think that
23 we can divest overnight. It's something that has to be
24 done gradually. But to begin that study is something that
25 is important to do right now and perhaps to create a

1 committee of CalPERS to look into this and to provide
2 monthly reports on that divestment.

3 Thank you very much for listening to me. I --
4 and thank you again for all that you do. I really -- I
5 mean, it's service to the people of California and service
6 to people of the world that you are doing. So I really
7 honor each and every one of you and thank you again.

8 CHAIRPERSON FECKNER: Thank you.

9 We have one more request to speak Vanessa
10 Warheit.

11 MR. WARHEIT: Thank you all very much. My name
12 is Vanessa Warheit. I'm the Executive Director of Fossil
13 Free California. And I'd like to speak to you both in
14 that capacity, but also on behalf of my mother Virginia
15 Warheit who's a CalPERS retiree. And she couldn't be here
16 today because of health issues.

17 You've heard from others about the data that is
18 now available showing the ongoing losses to CalPERS from
19 not divesting from fossil fuels. Your fiduciary duty
20 requires managing risk and securing returns for all
21 members, young and old. And the good news is that
22 divesting no longer presents a choice between short-term
23 and long-term needs. Divestment serves both and allows
24 you to fulfill your fiduciary duty.

25 Today, fossil fuels are no longer a blue chip

1 investment. I know it's hard to wrap our heads around
2 that when that's been the reality all of our lives. But
3 that is the case today, they provide bond-like returns
4 with highly volatile equity-like risk. Meanwhile, the
5 planet is literally on fire. And funds like CalPERS
6 represent in very real terms our last, best hope to avert
7 a global crisis unmatched in human history.

8 For all the talk of ESG leadership, the fund's
9 engagement with the fossil fuel industry has failed, even
10 under the old rules at the SEC, and we are now out of
11 time.

12 You need to act with great speed and great
13 courage. I urge you, on behalf of the human race and the
14 countless species also facing extinction, to divest all
15 but a small amount of your investments in fossil fuels.
16 As the gentleman mentioned earlier, you are legally able
17 to continue engaging with only 2,000 invested over a year
18 or two in any given fund without exposing billions of hard
19 earned dollars to such high levels of risk.

20 My mother Virginia -- I would love to speak for a
21 moment on her behalf, if you don't mind.

22 CHAIRPERSON FECKNER: Quickly, please.

23 MS. WARHEIT: Thank you.

24 She retired ten years ago from the City of Palo
25 Alto as senior city planner. And there are two things she

1 wants me to tell you. First -- and I'm now channeling my
2 mother -- fossil fuels are not a good financial
3 investment. You have obligations, present and future, and
4 we need to use all of the information available to us to
5 choose the best investments. And you now have information
6 showing that these are not a good investment.

7 Secondly, we paid into this fund. This is our
8 hard earned money you are investing for us, and it is
9 foolhardy to keep investing in fossil fuels when they have
10 hidden the true cost of the climate crisis for decades and
11 they're continuing to fight efforts to transition to a
12 cleaner energy economy. It really bothers me that my
13 money is being used for something that is so destructive.
14 I demand that you align our investments with the physics
15 of the climate crisis and the goals of the Paris Climate
16 Accord, and follow the lead of the UC Regents, and divest
17 immediately from fossil fuels.

18 Thank you very much.

19 CHAIRPERSON FECKNER: Thank you. Thank you all
20 for your comments.

21 We'll move on to Item 11c, CalPERS for California
22 Annual Update.

23 Mr. Bienvenue.

24 CHIEF INVESTMENT OFFICER MENG: While we're
25 waiting for Dan to get ready, I just want to make one

1 comment. Early on, we mentioned that every year we pay
2 out about \$24 billion to our retirees. That is part of
3 CalPERS for California most of that \$24 billion consume
4 the spending in California.

5 INTERIM CHIEF OPERATING INVESTMENT OFFICER

6 BIENVENUE: Thanks, Ben. Thank you, Mr. Chair.

7 Agenda Item 11C is an information item on CalPERS
8 annual report on investments in California. It originally
9 came to the Committee as a consent item in June, but is
10 being brought back to the Committee as an information item
11 upon request.

12 The Consultant who prepared the report is here to
13 answer any questions as needed. And in the interests of
14 time an approaching lunch, I'll pause there and happy to
15 take any questions.

16 CHAIRPERSON FECKNER: Seeing none. Good call.

17 (Laughter.)

18 INTERIM CHIEF OPERATING INVESTMENT OFFICER

19 BIENVENUE: Thank you.

20 CHAIRPERSON FECKNER: That brings us to Agenda
21 Item 12, Summary of Committee Direction. Mr. Meng.

22 CHIEF INVESTMENT OFFICER MENG: Yeah. I noted
23 two. One is from Ms. Taylor earlier regarding the --
24 during part of the Real Assets Program review, you
25 mentioned making sure that, you know, our managers are in

1 compliance with the new law in terms of sexual harassment
2 prevention training.

3 And the second one was from Ms. Olivares when we
4 were talking about the policy revision of the private
5 assets. So the comment is to make it more clear that this
6 is not to get rid of the areas expertise -- actually is
7 moving that to somewhere else. So I noticed these two
8 items.

9 CHAIRPERSON FECKNER: All right. Very good.

10 Seeing no other requests.

11 This meeting is adjourned.

12 (Thereupon California Public Employees'
13 Retirement System, Investment Committee
14 meeting open session adjourned at 12:54 p.m.)

15

16

17

18

19

20

21

22

23

24

25

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

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

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

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

14 IN WITNESS WHEREOF, I have hereunto set my hand
15 this 21st day of November, 2019.

16
17
18
19
20
21


22 JAMES F. PETERS, CSR
23 Certified Shorthand Reporter
24 License No. 10063
25