

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

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

TUESDAY, FEBRUARY 19, 2019
9:00 A.M.

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

COMMITTEE MEMBERS:

Mr. Bill Slaton, Chairperson

Mr. Rob Feckner, Vice Chairperson

Ms. Margaret Brown

Ms. Dana Hollinger

Ms. Adria Jenkins-Jones

Mr. Henry Jones

Ms. Fiona Ma, also represented by Mr. Frank Ruffino

Mr. David Miller

Ms. Mona Pasquil Rogers

Mr. Jason Perez

Mr. Ramon Rubalcava

Mr. Theresa Taylor

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

STAFF:

Ms. Marcie Frost, Chief Executive Officer

Mr. Matt Jacobs, General Counsel

Dr. Ben Meng, Chief Investment Officer

Ms. Natalie Bickford, Committee Secretary

Mr. Dan Bienvenue, Interim Chief Operating Investment
Officer

Mr. John Cole, Investment Director

Ms. Kit Crocker, Investment Director

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

STAFF:

Mr. Sarah Corr, Interim Managing Investment Director

Mr. Paul Mouchakkaa, Managing Investment Director

Mr. Beth Richtman, Managing Investment Director

Mr. John Rothfield, Investment Director

ALSO PRESENT:

Ms. Lisa Bacon, Meketa Investment Group

Mr. Terry Brennand, Service Employees International Union
California

Mr. Al Darby, Retired Public Employees Association

Mr. Allan Emkin, Pension Consulting Alliance

Ms. Christy Fields, Pension Consulting Alliance

Mr. David Glickman, Pension Consulting Alliance

Ms. Emily Claire Goldman, Educators for Migrant Justice

Mr. Steve Hartt, Meketa Investment Group

Mr. Dane Hutchings, League of California Cities

Mr. Ruben Ingram, School Employers Association of
California, Capitol Advisors Group

Mr. J.J. Jelincic

Mr. Andrew Junkin, Wilshire Associates

Mr. Ali Kazemi, Wilshire Associates

Ms. Steve McCourt, Meketa Investment Group

Mr. Geoff Neill, California State Association of Counties

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

ALSO PRESENT:

Ms. Martha Penry, California School Employees Association

Ms. Kate Riley, Educators for Migrant Justice

Ms. Hannah Schriener, Meketa Investment Group

Mr. Larry Woodson, California State Retirees

I N D E X

	PAGE
1. Call to Order and Roll Call	1
2. Election of the Chair and Vice-Chair	3
3. Approval of the February 19, 2019 Investment Committee Timed Agenda	6
4. Executive Report - Chief Investment Officer Briefing - Ben Meng	7
5. Action Consent Item - Ben Meng	8
a. Approval of the December 17, 2018 Investment Committee Open Session Meeting Minutes	
b. Review of the Investment Committee Delegation	
c. Contract Administration: Assignment of Asset Class and Board Consultant Contracts	
6. Information Consent Items - Ben Meng	8
a. Annual Calendar Review	9
b. Draft Agenda for the March 18, 2019 Investment Committee Meeting	15
c. Monthly Update - Performance and Risk	
d. Monthly Update - Investment Compliance	
e. Report to the California Legislature - Holocaust Era and Northern Ireland	
7. Information Agenda Item - Total Fund	
a. CalPERS Trust Level Review - Consultant Report - Andrew Junkin, Wilshire Associates Consulting, Christy Fields, Pension Consulting Alliance, Stephen McCourt and Steven Hartt, Meketa Investment Group	17
b. CalPERS Trust Level Review - Ben Meng, Dan Bienvenue, Eric Baggesen, Michael Krimm, and John Rothfield	122
c. Summary of Private Equity Business Models - Ben Meng and John Cole	152
8. Summary of Committee Direction - Ben Meng	212
9. Public Comment	213

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

	PAGE
Adjournment	218
Reporter's Certificate	220

P R O C E E D I N G S

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

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

5 COMMITTEE SECRETARY BICKFORD: Henry Jones?

6 CHAIRPERSON JONES: Here.

7 COMMITTEE SECRETARY BICKFORD: Margaret Brown?

8 COMMITTEE MEMBER BROWN: Here.

9 COMMITTEE SECRETARY BICKFORD: Rob Feckner?

10 COMMITTEE MEMBER FECKNER: Good morning.

11 COMMITTEE SECRETARY BICKFORD: Good morning.

12 Dana Hollinger?

13 COMMITTEE MEMBER HOLLINGER: Here.

14 COMMITTEE SECRETARY BICKFORD: Adria
15 Jenkins-Jones?

16 COMMITTEE MEMBER JENKINS-JONES: Here.

17 COMMITTEE SECRETARY BICKFORD: Fiona Ma?

18 COMMITTEE MEMBER MA: Here.

19 COMMITTEE SECRETARY BICKFORD: David Miller?

20 COMMITTEE MEMBER MILLER: Here.

21 COMMITTEE SECRETARY BICKFORD: Mona Pasquil
22 Rogers?

23 COMMITTEE MEMBER PASQUIL ROGERS: Here.

24 COMMITTEE SECRETARY BICKFORD: Jason Perez?

25 COMMITTEE MEMBER PEREZ: Here.

1 COMMITTEE SECRETARY BICKFORD: Ramon Rubalcava?

2 COMMITTEE MEMBER RUBALCAVA: Here.

3 COMMITTEE SECRETARY BICKFORD: Bill Slaton?

4 COMMITTEE MEMBER SLATON: Here.

5 COMMITTEE SECRETARY BICKFORD: Theresa Taylor?

6 COMMITTEE MEMBER TAYLOR: Here.

7 COMMITTEE SECRETARY BICKFORD: And Betty Yee
8 represented by Lynn Paquin?

9 ACTING COMMITTEE MEMBER PAQUIN: Here.

10 CHAIRPERSON JONES: Okay.

11 Thank you. The next order of business, we are
12 going to create a new practice where we're going to Pledge
13 the Allegiance also for -- at the Investment Committee.
14 So this morning, I've asked Jason Perez to lead us in the
15 Pledge of Allegiance.

16 (Thereupon the Pledge of Allegiance was
17 recited in unison.)

18 CHAIRPERSON JONES: Thank you.

19 And you probably -- for those of you that were
20 not at the off-site, we do have three new Board members.
21 And Jason Perez, who just led us in the Pledge of
22 Allegiance, he's a Sergeant from Corona Police Department
23 and President of his Police Officer's Association; Fiona
24 Ma, the ex officio member of our Board, newly elected
25 State Treasurer; and Mona Pasquil Rogers, appointed by

1 Governor Brown, Director of the State Personnel Board. So
2 welcome to all three of you.

3 And at that time, we will move to the next action
4 item is the election of the Chair and Vice Chair for
5 Investment Committee.

6 Okay. We've got Ms. Mona Pasquil Rogers.

7 COMMITTEE MEMBER PASQUIL ROGERS: I beg your
8 pardon?

9 CHAIRPERSON JONES: Oh, you're -- Okay. That's
10 okay. Okay. Yeah, when you hit that button your name
11 comes up okay, so that -- Ms. Hollinger.

12 COMMITTEE MEMBER HOLLINGER: Yes. I am proud and
13 pleased to elect Bill Slaton -- nominate, pardon me --
14 nominate Bill Slaton as Chair of the Investment Committee.

15 CHAIRPERSON JONES: Okay. It's -- Bill Slaton
16 has been nominated to be the Chair of the Investment
17 Committee.

18 Are there any other nominations?

19 Are there any other nominations?

20 Are there any other nominations?

21 Hearing no additional nominations, I would
22 entertain a motion a elect Bill Slaton as Chair of the
23 Investment Committee by acclamation.

24 COMMITTEE MEMBER HOLLINGER: I move.

25 CHAIRPERSON JONES: It's moved by Ms. Hollinger.

1 Second by --

2 COMMITTEE MEMBER MA: Can we take a roll call
3 vote?

4 CHAIRPERSON JONES: Okay. You'd like to -- okay.
5 I can take a roll call.

6 Let's take a roll call vote at the request of a
7 member of the Board.

8 Oh, second. Did you second it, Ms. Ma, also?

9 COMMITTEE MEMBER MA: No.

10 CHAIRPERSON JONES: Okay.

11 COMMITTEE MEMBER BROWN: I'll second it.

12 CHAIRPERSON JONES: Okay. It's been seconded.

13 I have no problem of withdrawing the request for
14 a motion by -- a nomination by acclamation to have a roll
15 call vote, unless the Committee members disagree, then
16 I'll have a roll call vote.

17 So seeing no disagreement, roll call vote, please
18 for the nomination, and it's been seconded for Bill Slaton
19 to be Chair of the Investment Committee.

20 Hit your button.

21 (Thereupon an electronic vote was taken.)

22 COMMITTEE MEMBER JONES: Okay. Congratulations,
23 Mr. Slaton.

24 (Applause.)

25 COMMITTEE MEMBER JONES: Mr. Slaton, would you --

1 Mr. -- Bill, would you do the Vice Chair from there and
2 then after that we'll make the move around.

3 CHAIRPERSON SLATON: Absolutely.

4 COMMITTEE MEMBER JONES: I guess I have to call
5 on you.

6 Okay. Just a second here. Mr. Slaton.

7 CHAIRPERSON SLATON: Thank you. And thanks to
8 the Board for their confidence in me to Chair this very
9 important Committee.

10 The next order of business is the election of
11 Vice Chair. So I'll -- let's see I have to --

12 COMMITTEE MEMBER JONES: I'll call on them.

13 CHAIRPERSON SLATON: You'll have to call because
14 I can't see the Board.

15 COMMITTEE MEMBER JONES: Ms. Taylor.

16 COMMITTEE MEMBER TAYLOR: Thank you.

17 I'd like to nominate Rob Feckner for Vice Chair
18 for the Investment Committee.

19 COMMITTEE MEMBER JONES: I'll second.

20 CHAIRPERSON SLATON: Okay. It's been moved to
21 elect Mr. Feckner as Vice Chair of the Committee.

22 Are there any further nominations?

23 Any further nominations?

24 Third and last time, any further nominations?

25 If not, nominations are closed.

1 I would entertain a motion to elect Mr. Feckner
2 by acclamation.

3 COMMITTEE MEMBER TAYLOR: So moved.

4 COMMITTEE MEMBER HOLLINGER: Second.

5 CHAIRPERSON SLATON: It's been moved and
6 seconded.

7 All those in favor say aye?

8 (Ayes.)

9 CHAIRPERSON SLATON: Opposed?

10 Motion carries. Congratulations.

11 (Applause.)

12 COMMITTEE MEMBER JONES: So now we will give the
13 staff 10 minutes to change the chairs on the deck.

14 (Off record: 9:05 a.m.)

15 (Thereupon a recess was taken.)

16 (On record: 9:09 a.m.)

17 CHAIRPERSON SLATON: All right. We'll now
18 resume.

19 The next item on the agenda is approval of the
20 February 19th, 2019 Investment Committee timed agenda.
21 I'll entertain a motion.

22 COMMITTEE MEMBER BROWN: Move approval.

23 COMMITTEE MEMBER HOLLINGER: Second.

24 CHAIRPERSON SLATON: Motion from Brown, second
25 from Hollinger.

1 All those in favor say aye?

2 (Ayes.)

3 CHAIRPERSON SLATON: Opposed?

4 Motion carries.

5 By the way, we did receive on behalf -- on behalf
6 of the Investment Committee, the Full Board received
7 letters both from the California Professional
8 Firefighters, as well as the California School Employees
9 Association. And we appreciate their input.

10 Now, we'll move to the Executive Report. And
11 it's your -- Ben Meng, it's your first report of an
12 official Committee meeting, so welcome, and we look
13 forward to hearing your comments.

14 CHIEF INVESTMENT OFFICER MENG: Good morning,
15 everyone. Congratulations, Investment Committee Chair Mr.
16 Slaton. So this morning, the review -- my understanding
17 in connection is that every year there's -- we do these
18 trust level review twice, one we start with our consultant
19 first, and then the second time we will start with the
20 staff first. So today is the time that we'll start with
21 Wilshire on the trust level review, then followed by the
22 staff.

23 Sorry. That concludes my comments.

24 CHAIRPERSON SLATON: Okay.

25 CHIEF INVESTMENT OFFICER MENG: Sorry.

1 (Laughter.)

2 CHAIRPERSON SLATON: That was -- that was short
3 and concise. Thank you very much.

4 (Laughter.)

5 CHAIRPERSON SLATON: So now we'll move to the
6 action consent items. Do I hear a motion?

7 COMMITTEE MEMBER JONES: Move approval.

8 COMMITTEE MEMBER MILLER: Second.

9 VICE CHAIRPERSON FECKNER: Are you taking items
10 off though?

11 CHAIRPERSON SLATON: No, no. That's on the --
12 that's on the action -- information consent. Okay.
13 Motion from Jones. Who seconded?

14 Miller. Second from Miller.

15 All those in favor say aye?

16 (Ayes.)

17 CHAIRPERSON SLATON: Opposed?

18 Motion carries.

19 I've been asked to pull two items off of the Item
20 -- Agenda Item 6, Information Consent, 6a, Annual Calendar
21 Review, and 6b, that was from Mr. Perez and from Lynn
22 Paquin representing the Controller, 6b.

23 So before we move to Item 7, let's go ahead and
24 address those items. So we'll start with 6a. And, Mr.
25 Perez, you asked. If you'll hit your request button and

1 we'll go there.

2 Mr. Perez.

3 COMMITTEE MEMBER PEREZ: Thank you.

4 In light of the training that I just received in
5 preparation for the -- to be a Board member, I realized
6 that the onus of the fiduciary responsibility is pretty
7 high. And so doing that, we are still responsible for the
8 decisions of the past Boards. So I wonder if we can put
9 on the agenda, during the calendar, sooner rather than
10 later, a reassessment of our divestitures, please.

11 CHAIRPERSON SLATON: Okay. This is all -- when
12 is the next time we do divestment review. I just wanted
13 to -- do we know? Can staff...

14 INTERIM CHIEF OPERATING INVESTMENT OFFICER

15 BIENVENUE: So there are -- there are various different
16 reviews, as we go through --

17 CHAIRPERSON SLATON: Um-hmm.

18 INTERIM CHIEF OPERATING INVESTMENT OFFICER

19 BIENVENUE: -- but I think we moved everything to a
20 five-year plan. And it's out -- it's out a ways. I don't
21 know exactly what the date is, but it's out a ways.

22 CHAIRPERSON SLATON: Um-hmm. Well, in
23 consideration of Mr. Perez's request, I don't think
24 there's anything that prevents us from having a discussion
25 on this, at least to bring new members up-to-date. But

1 let's see if staff has any further commentary.

2 INTERIM CHIEF OPERATING INVESTMENT OFFICER

3 BIENVENUE: So 2021 is our expected date for all five of
4 the divestment reviews. However, if we need to do it
5 sooner, certainly if directed, we certainly can do it
6 sooner.

7 CHAIRPERSON SLATON: Um-hmm. Do we have any
8 comments from other Board members regarding this issue?

9 Yes. The board lit up.

10 Ms. Taylor.

11 COMMITTEE MEMBER TAYLOR: Yes. Thank you. We
12 have reviewed and discussed these divestments ad nauseam,
13 I will say. Most of them are done through the
14 Legislature. There's very few that the Board has made on
15 its own. And we've recently reviewed I think that one.
16 So I'm not sure that it's necessary for us to bring -- I
17 don't feel that it's necessary for the Board to bring it
18 up. So I would oppose this.

19 CHAIRPERSON SLATON: Okay. Ms. Brown.

20 COMMITTEE MEMBER BROWN: Thank you, Mr. Chairman.
21 I would appreciate if you would agendize for either next
22 month or March, just an overview of the Divestment Policy,
23 and where this Board stands. We have four new members and
24 then myself and Ramon are also new from last year, and so
25 is Mr. Miller. But I think it would be helpful to at

1 least have and overview of the policy, so we can all learn
2 about it and find out where we're going.

3 Thank you.

4 CHAIRPERSON SLATON: Mr. Jones.

5 COMMITTEE MEMBER JONES: Yeah. Thank you, Mr.
6 Chair.

7 Yeah, I would support bringing something back
8 from an overview perspective, so that particularly the new
9 members can get an opportunity to know about the
10 strategies, the consequences, et cetera. However, I would
11 not support bringing it back right now for a decision, but
12 I would support bringing it back for an overview. And we
13 will be able to make our decision in 2021 as scheduled

14 CHAIRPERSON SLATON: Okay. Well, let's see. Mr.
15 Miller.

16 COMMITTEE MEMBER MILLER: I guess I have kind of
17 a question and a comment. When -- I'm not sure. Maybe
18 staff could inform us, when was what the last kind of
19 Board or Committee level review of this topic? And I know
20 that those materials would be available to us to review or
21 perhaps have a briefing for us by staff for the folks who
22 weren't there.

23 And then second, could we get, in terms of an
24 overview at a future meeting some time soon, any kind
25 of -- since that last review, whether anything really

1 significant that has happened in the interim that we
2 should be aware of rather than waiting till 2021, the full
3 new analysis.

4 INTERIM CHIEF OPERATING INVESTMENT OFFICER

5 BIENVENUE: So I'll have Kit answer the questions. This
6 is Kit Crocker who's our Investment Director over ICOR,
7 which is where the divestment activity is handled. I'll
8 have Kit answer kind of when each one was gone through.
9 As far as level of significance since then, it's -- you
10 know, I'd say probably the most significant that's changed
11 is the -- is the members of the Board. However, I do
12 think, you know, certainly in all cases there have been,
13 you know, sort of, you know, news updates. And so
14 we'll -- you know, really the question is do any of those
15 rise to the level of wanting to do the full review?

16 INVESTMENT DIRECTOR CROCKER: Good morning. Kit
17 Crocker, Investment Compliance And Operational Risk. And
18 my jurisdiction over divestments is from a compliance
19 perspective. We -- the five-year -- we have a, I think,
20 five active divestments. Each of them is, of course,
21 reviewed before it is implemented by the Board. The Board
22 makes a fiduciary duty decision at that time.

23 The concept of -- the idea that we would want a
24 five-year assessment -- reassessment comes from a desire
25 of the Board to make sure that its fiduciary duty still

1 supports the divestment in -- so that it doesn't go on in
2 perpetuity without a reexamination of whether today's
3 circumstances would still merit that.

4 The five-year review requirement is relatively
5 new. I think it was included in the Total Fund Investment
6 Policy two years ago -- two or three years ago. The first
7 reassessment was of tobacco, which was in 20 -- fall of
8 2016. And since then, we have been -- there was debate
9 whether we would stagger each of the five-year reviews,
10 which would mean that the Board would have one basically
11 every year or consolidate them and do it sort of all --
12 all in one big bang. And when -- the request was to
13 consolidate them and do it once. That takes a lot of time
14 and preparation on staff's part.

15 So if we were to do the five-year reviews on all
16 of them -- all of the active divestments, we -- we had
17 estimated we would need at least until 2021.

18 To discuss the Divestment Policy takes less time.
19 I mean, we could obviously prepare to do that in fairly
20 short order. Probably not by March, because I think those
21 agenda items are due almost now. But otherwise, we're
22 happy to oblige what would ever would help the Board.

23 CHAIRPERSON SLATON: Well, I think given --
24 listening to the conversation from fellow Board members, I
25 think the direction from the Chair would be let's do a

1 review. Not a full blown -- not the five-year. We're not
2 going to accelerate that. But given the fact that the
3 number of new Board members that we have here who were not
4 present during these discussions to allow us to get a
5 briefing on the policy and where we are, which ones we
6 have, but not in anticipation of a decision process coming
7 up.

8 Now, if we can -- if we can do it in March, okay.
9 If you can't, you know, again, staff has to help with the
10 workload in terms of when we can do it, so --

11 INTERIM CHIEF OPERATING INVESTMENT OFFICER
12 BIENVENUE: So I think our preference would be April. As
13 Kit says, I think, agenda items for March are due
14 imminently.

15 CHAIRPERSON SLATON: Okay

16 INTERIM CHIEF OPERATING INVESTMENT OFFICER
17 BIENVENUE: But we can -- and just to make sure we
18 understand, this will be a high-level understanding of
19 what are the divestments we have in place --

20 CHAIRPERSON SLATON: Correct.

21 INTERIM CHIEF OPERATING INVESTMENT OFFICER
22 BIENVENUE: -- which one are -- which ones are
23 legislative, which ones are Board action --

24 CHAIRPERSON SLATON: Correct.

25 INTERIM CHIEF OPERATING INVESTMENT OFFICER

1 BIENVENUE: -- and then just, you know, kind of magnitude.

2 CHAIRPERSON SLATON: Yeah, just to bring us all
3 on the same page as to where we are.

4 INTERIM CHIEF OPERATING INVESTMENT OFFICER

5 BIENVENUE: Right. Okay. Okay. But not a deeper dive
6 into --

7 CHAIRPERSON SLATON: Not a deeper dive into all
8 the nuances of everyone of them.

9 INTERIM CHIEF OPERATING INVESTMENT OFFICER

10 BIENVENUE: That makes sense. If we get a deeper dive,
11 that's the one that, to Kit's point, would require a bit
12 more time.

13 CHAIRPERSON SLATON: Okay. All right. That will
14 be the direction of the Chair then

15 INTERIM CHIEF OPERATING INVESTMENT OFFICER

16 BIENVENUE: Certainly. We'll plan on that for April then,
17 if that works.

18 CHAIRPERSON SLATON: All right.

19 We'll now move on to the other item. This is
20 Lynn Paquin on behalf of Controller Yee on the draft
21 agenda for the March meeting.

22 And let me get you on line. There you are.

23 ACTING COMMITTEE MEMBER PAQUIN: Okay. Thank
24 you, Mr. Chair.

25 So thank you for this opportunity. A letter has

1 just been distributed to the Board from Controller Yee.
2 And she wrote to respectfully request that CalPERS staff
3 draft language clarifying support for carbon pricing and
4 present it during our annual review of the Governance and
5 Sustainability Principles at the March 2019 Investment
6 Committee meeting.

7 And in addition to the climate benefits, the
8 language respectfully would also include CalPERS' position
9 on just transition to ensure that our most vulnerable
10 communities do not bear undue financial hardship on this
11 essential language.

12 And in essence, CalPERS has long been a supporter
13 since the Paris Agreement working with other institutional
14 investors on calling for action to meet the Paris climate
15 goals. And one of those would be supporting carbon
16 pricing policies, which has also gotten a lot of traction
17 with bipartisan legislation in Congress, as well as
18 support from large corporations.

19 So we appreciate your consideration of this
20 request for March.

21 CHAIRPERSON SLATON: Okay. We just talked about
22 the March agenda, but on other item. Can we do this in
23 time for the March agenda in a meaningful way?

24 CHIEF INVESTMENT OFFICER MENG: Beth, do you
25 want to answer the question?

1 MANAGING INVESTMENT DIRECTOR RICHTMAN: Yes. We
2 can -- we have some draft language we've actually been
3 working through, our Governance and Sustainability
4 Subcommittee related to carbon pricing, given CalPERS past
5 support on this issue. So we can be ready for that in
6 March.

7 CHAIRPERSON SLATON: Great. All right. Very
8 good. So directed from the Chair, we'll do that.

9 ACTING COMMITTEE MEMBER PAQUIN: Great. Thank
10 you.

11 CHAIRPERSON SLATON: Thank you very much and
12 thank the Controller for us.

13 We'll now move to Item 7, the Trust Fund Review,
14 7a, which are the consultant reports.

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

17 MR. JUNKIN: Good morning. Andrew Junkin from
18 Wilshire Consulting. I'm here with Ali Kazemi. And we're
19 tasked with providing an economic overview and reviewing
20 the fourth quarter performance. Since the fourth quarter
21 was a challenge, Ali will be discussing that, and I'll sit
22 back, and let him take the heat.

23 But just starting at a very high level, we update
24 our asset class assumptions, which many of our clients use
25 to design their asset allocations going forward once a

1 quarter. And what you have before you on page two of 53,
2 which matches our page numbering, is our 10-year
3 forward-looking asset class assumption. We'll use this
4 again later when we look at your asset allocation and the
5 forecasted returns that it produces.

6 But I wanted to highlight a few things here.
7 First -- and I'm going to kind of bounce around -- all the
8 way on the right is our forecast for inflation for the
9 next 10 years, about 1.7. So that seems kind of in line
10 with the Fed's target.

11 It is a little bit low compared to what I think
12 we're historically used to of kind of three percent, but
13 that's what the market is telling us right now based on
14 the TIPS forecast.

15 Why would I bring this up?

16 Well, if you kind of go back to the middle of the
17 page, you can see the forecasted return for cash is
18 actually above the forecasted return for inflation, which
19 is sort of a tipping point that we've just recently hit.
20 So we now actually have a positive real return on very
21 short-term investments. So we're kind of out of what has
22 commonly been referred to as financial repression, where
23 savers weren't even keeping up with inflation. They are
24 now. It's not a great return, but it's a pretty
25 significant technical issue, because it filters through a

1 lot of the other returns that you'll see.

2 Looking second then at the long-term core bond
3 assumption. This is a pretty good proxy for your fixed
4 income portfolio. And over the next 10 years we're
5 expecting four and a quarter. Private real estate is off
6 to the far right again under real estate, private real
7 estate, 6.65. That's a blend of core and value-add, but
8 dominated by core, much like your portfolio, so that's a
9 pretty good proxy.

10 And then the last two I wanted to touch on are
11 towards the left side, global stock, which would be pretty
12 representative of your global equity port, 7.45, so call
13 it 7.5, and private equity right at about 10 percent. So
14 I know there's a lot of private equity both in open
15 session and in closed session later today. Just kind of
16 wanted to lay this out again. And we've talked about it a
17 number of times, but I recognize there are some new Board
18 members.

19 You know, private equity really is the one asset
20 class that has a significantly higher return that can
21 drive the CalPERS expected returns and hopefully realized
22 returns higher.

23 ---o0o--

24 MR. JUNKIN: From there, I want to cover a little
25 bit of the economic review here.

1 Looking at consumer sentiment, kind of in the --
2 in the top third of the page, you can see that current
3 reading is 98. What you're looking for here is really
4 kind of changes. And you can see consumers, over the last
5 year, have begun to feel a little bit more positive. It's
6 still much higher than that 10-year average. But that
7 10-year average was dragged way down by the global
8 financial crisis. And consumer sentiment stayed pretty
9 low there.

10 Why does consumer sentiment matter?

11 If you look at the graph in the lower left, you
12 can sort of tease out from that straight line, it's called
13 consumer spending. Consumer spending drives about
14 two-thirds of the U.S. GDP. So as the consumer goes, so
15 goes the rest of the economy.

16 Manufacturing is also strong, but sort of
17 tightened up a little bit in December, but still in what
18 would be considered an expansionary phase there with a
19 reading above 50. And then the unemployment rate and job
20 growth loss, unemployment rate right at about four
21 percent, which is very tight. Starting to see some labor
22 pressures in terms of labor costs. And you can see this
23 chart, which goes back five years, has zero monthly job
24 losses for the economy, which is just an amazing streak.

25 --o0o--

1 MR. JUNKIN: Page four, I wanted to draw your
2 attention to a couple of things here. In the upper right,
3 this -- we've put a lot of information on this page, and
4 so it's really kind of hard to see. But there's a little
5 hockey stick right there in the credit indexes where
6 spreads widened during December. That was a pretty
7 attractive point. It's tightened back up again, but
8 December really got to be pretty disjointed, and it was
9 affecting both equity and fixed income markets. So he
10 additional yield for investment grade and high yield
11 spiked a little bit.

12 The scale on this chart is completely distorted
13 by 2008. We almost need to remove from the chart, so you
14 can even see the wiggles in the line. Otherwise, it's
15 almost indistinguishable.

16 And then another graph here. IN the lower right,
17 this is the VIX, volatility Index for equities. I'm going
18 to talk a little bit about equity volatility over the next
19 few pages, but this is kind of the jumping off point. You
20 can see sort of tail end of 2017, it was very, very low.
21 It moved up, went back down, and then came back up.

22 Why does this matter?

23 When volatility is high, is rare. And I actually
24 don't think it's happened where we see rapidly rising
25 volatility and rising equity prices. Rising volatility

1 tends to scare the market, and it either leads to sort
2 stagnant or declining equity markets. And so that was one
3 of the challenges that we saw last year.

4 --o0o--

5 MR. JUNKIN: Another way to look at that is here
6 on page five. And I think this is a little bit more
7 intuitive. Each of the blue bars represents the return of
8 the U.S. equity market during that calendar year. And the
9 green dot represents the largest drawdown peak-to-trough.
10 And 2017, which is the second bar in from the right really
11 was a remarkable year. You know, the largest drawdown we
12 ever had was three percent. We didn't come close to
13 anything approximating a technical correction or a Bear
14 Market.

15 2018 was quite different obviously. And the
16 largest sell down being 20 percent, which was in December
17 we just touched that briefly for basically a day and then
18 moved off of it with the return being minus five percent.
19 So I would say that 2018, while it was traumatic to most
20 investors, it was a pretty -- you see a number of years
21 that are quite like that, where there's a pretty big sell
22 off in the middle of the year and returns are not great.
23 It doesn't necessarily portend that further damage is
24 coming.

25 --o0o--

1 MR. JUNKIN: Page six here. Just to put 2017
2 into a little bit more context, if you look at the 2017
3 column -- sorry, row in the table at the top, you can see
4 the annualized volatility. This is actually out of the
5 last 39 years, where we've got good data. The annualized
6 volatility was below seven percent, that's the lowest of
7 any of the 39 years.

8 The number of down days -- so we've broken them
9 down by one percent, two percent, three percent, four
10 percent drawdowns and how often they occur. And
11 generally, you get one percent drawdowns pretty regularly.
12 We have four of them in 2017. We had 32 of them in 2018,
13 which is really not that far off of the average, which is
14 28. So, 2018, in terms of the volatility, was much more
15 normal. 2017 was kind of the outlier.

16 --o0o--

17 MR. JUNKIN: From here, I'm going to jump into
18 the expected return and risk. So this uses your current
19 target allocation, and our forecasted returns. When you
20 do your asset allocation study, we are a contributor to
21 that. Our expected returns are part of the expected
22 returns that CalPERS uses, but you don't use ours
23 explicitly you take looks from other people as well,
24 incorporate that, and come up with your own.

25 So this is just ours. So I want to draw that

1 distinction. And this is -- we've got a 10-year expected
2 return and then a 30-year expected return, which
3 approaches sort of long-run equilibrium returns for these
4 markets. So the expected return for the target allocation
5 6.8 percent over 30 years, closer to seven and a half
6 percent. And the price you pay is volatility, which is
7 about 12 percent. Comparing that to the actual
8 allocation, you're very close to your target with your
9 actual allocation, so not much difference there.

10 And, in fact, we can see that again on the next
11 page, page nine.

12 --o0o--

13 COMMITTEE MEMBER BROWN: Excuse me, Mr. Chair?
14 Did we skip over page seven?

15 MR. JUNKIN: We did.

16 COMMITTEE MEMBER BROWN: Oh, we did. We skipped
17 it?

18 MR. JUNKIN: Yeah, I just -- I'm happy to cover
19 it. It's just I was picking the pages to target.

20 CHAIRPERSON SLATON: Okay. Keep going.

21 --o0o--

22 MR. JUNKIN: Okay. So page nine, you can see the
23 target asset allocation and the actual asset allocation.
24 There's actually -- don't do the math, because I'm going
25 to show it to you on the next page, the differences

1 between the two.

2 I'm going to -- but the bottom two pie charts
3 here again are Important. And we -- we hit this point
4 regularly. And that is that even though your allocation
5 to growth assets, which is public equity and private
6 equity, the target capital deployed is 58 percent of your
7 portfolio. It represents 83 percent of your risk, right?
8 Equities are a riskier asset class and so they drive the
9 risk of your portfolio.

10 So if there is a significant sell off -- it
11 doesn't even have to be like 2008 -- it's -- you know,
12 you're portfolio is not going to be insulated from that,
13 because it's still 83 percent of the risk of the
14 portfolio.

15 --o0o--

16 MR. JUNKIN: And then page 10, here's where I do
17 the math for you. The asset allocation variance. You can
18 see you're underweight growth assets by about two and a
19 quarter percent, overweight income, and then overweight
20 this -- this TLPM other, which really doesn't have a
21 target allocation, but it holds a number of trust level
22 strategies that try to mitigate risk, things like that.
23 So that one is always going to be overweight unless you
24 completely eliminate those programs.

25 So that's the -- the current state of the asset

1 allocation. I want to -- recognizing that we've got a
2 number of private equity discussions later today and we've
3 been having them for a while, I really --

4 --o0o--

5 MR. JUNKIN: -- this is a page that shows up in
6 our report regularly. I'm -- I'm going to bounce ahead to
7 page 18, and then I'll bring it back to page 11, and Ali
8 will take over with the performance reporting.

9 This is a report from Preqin, which tries to --
10 to capture the amount of dry powder in the private asset
11 classes. So really, the dark blue bar here is private
12 equity. There's private debt, real estate, infrastructure
13 and natural resources. But private equity and private
14 debt are really the bulk of this.

15 In total, there's two and a half trillion dollars
16 of dry powder. What is dry powder? It's money that has
17 been committed to these asset classes, committed to
18 managers in these asset classes that they have not yet
19 invested into private equity, private debt projects,
20 investments, opportunities.

21 So if you compare this really even going back to
22 2009, where it was less than a trillion and a half
23 dollars, and if we rolled this chart back to something
24 like 2006, it's, you know, \$700 billion, this market has
25 changed dramatically over the last 10 years, particularly

1 post 2008. And the reason is we've seen a lot of
2 investors that have return targets that they're trying to
3 hit, recognizing the issues that I discussed on page two
4 where the assumed rate of return for private equity is
5 significantly higher than other asset classes, decide
6 they're going to allocate more and more money to that.

7 And so that has created this -- this flood of
8 capital into these private asset classes. And so
9 competition for deals is much higher. Ali will touch on
10 something later, which is the pricing within the private
11 equity market, the pricing is higher, which is -- has
12 pushed expected returns down. If we looked at our
13 expected return assumption 10 years ago for private
14 equity, I don't -- I don't have it memorized, but I'm
15 going to guess it was 12 or 13 percent, it's now 10
16 percent.

17 So that escalated pricing. The same thing
18 happens in the public markets or in fixed income, right?
19 Higher prices means lower expected returns. You're paying
20 more for an asset.

21 But I think this, as we continue to have private
22 equity discussions and -- about the potential business
23 model, this is something to keep in mind, right, that
24 CalPERS is looking to have a pretty significant portion of
25 their assets invested in private equity. This is what the

1 landscape looks like. And continuing to invest, as others
2 might, right -- we work with a number of clients, and
3 somebody with \$5 billion that has a 10 percent allocation
4 to private equity has a far easier time than you all do.
5 This is one place where your scale has some pretty
6 meaningful disadvantages, right?

7 You can't -- if somebody raises a \$5 billion
8 fund, you can't take it all. They won't let you. You
9 might want to, but they won't let you. It's hard to get
10 money deployed. And so if your target allocation, target
11 deployment on a yearly basis is 8 or 10 billion dollars
12 against a backer -- backdrop of two and a half trillion
13 dollars of dry powder, it's a challenge. So --

14 CHAIRPERSON SLATON: Can I have you pause for a
15 moment. We have several people who want to ask questions.

16 MR. JUNKIN: Okay.

17 CHAIRPERSON SLATON: Let's take a break for that
18 for a moment.

19 Mr. Jones.

20 COMMITTEE MEMBER JONES: Thank you, Mr. Chair.

21 Yeah. Thank you, Andrew. I have a couple
22 questions, since you're on the chart of private equity,
23 the first question goes here.

24 Looking at the 70 percent of that two trillion is
25 private equity, so what this says is that the traditional

1 models that we have in terms of commingled funds,
2 fund-of-funds approach, that people may not even accept or
3 money, because they're already got money that they can't
4 exercise implementation at this point in time.

5 So then that means that -- does that drive the
6 cost of them going to these categories even higher?

7 MR. JUNKIN: Certainly, the managers have pricing
8 power in this environment, right? Let's say you were
9 going to commit a billion dollars to a fund, and the
10 sticking point was just the fee. In a market where
11 there's two and a half trillion dollars of dry powder,
12 they'll just rollover to the next potential investor, who
13 may not be so price sensitive.

14 So I do think it -- it is harder for investors of
15 all kinds, not just CalPERS. But certainly, your scale
16 should permit some leverage when it comes to negotiating
17 pricing. I'm just saying in this environment, it's
18 probably more challenging, because there is way too much
19 demand for private equity at this moment than the -- than
20 the managers can even sort of get capital into the ground.

21 COMMITTEE MEMBER JONES: Okay. And my other
22 question goes back to an earlier page. I don't remember
23 what page it was, but it was the -- your 10-year forecast
24 for the CPI of 1.7 percent, I think it was.

25 MR. JUNKIN: Right. Yeah.

1 COMMITTEE MEMBER JONES: So if the Fed's goal is
2 two percent, what do you see the monetary policy coming or
3 being maintained from the Fed with their continued goal of
4 hit that two percent policy?

5 MR. JUNKIN: So this -- this forecast really is
6 kind of a 10-year number. And if you were to break it
7 down into segments, I think we'd probably say the first
8 few years might be a little bit light on that. And then
9 it might -- the later years might be a little bit higher
10 getting to that 1.7.

11 We don't have -- we may have the page, but it may
12 be. In the section you were going to cover, Ali, is there
13 the Fed balance sheet page?

14 Let's go to page 32. Regardless of how much time
15 you spend thinking about how this presentation is going to
16 flow, you can't get the pages in the right order.

17 (Laughter.)

18 MR. JUNKIN: So page 32 here, I think the bottom
19 part of this chart hits really the question that you're
20 talking about, Mr. Jones, which is the federal reserve
21 balance sheet, which was less than a trillion dollars
22 going into 2008, went up to almost four and a half
23 trillion. And they've announced they're going to shrink
24 the balance sheet. It's not going to go back to 700 or
25 800 billion.

1 So far, what they said they would do and what
2 they have done are really right in line. And that's what
3 the market wants to see. Surprises from the Fed tend to
4 ripple the markets, either positively or negatively. And
5 we've seen that just in how much attention people pay to
6 the way they phrase things in their statements, and how
7 carefully they choose their words as a result.

8 So on something this significant, the declining
9 balance sheet here, which is largely due to maturities and
10 paydowns. It's not them selling assets into the market,
11 this is very predictable, but I think will probably, you
12 know, tamp down economic activity at the margin, which
13 probably will help keep a lid on inflation.

14 COMMITTEE MEMBER JONES: Okay. Thank you.

15 CHAIRPERSON SLATON: Ms. Taylor.

16 COMMITTEE MEMBER TAYLOR: Yes. Thank you.

17 So my first question is on page nine you were
18 talking about how vulnerable we were. And I -- and I know
19 that we are -- have been talking about a possible downturn
20 coming, but right now it's looking pretty good. So, I
21 mean, what do you suggest?

22 MR. JUNKIN: I don't suggest any changes, because
23 really I would take you back to page eight. You know,
24 over 10 years, we think you're going to earn very close to
25 your expected rate of return. And recognize, we know our

1 forecasts are wrong, right? That's the one thing I know
2 about them. We've got a basis. We've got a framework
3 that helps build them. We think they're rational. We
4 think the differences between asset classes where you take
5 more risk, you should earn more return. That all is
6 intuitive.

7 We would not be advocates of market timing.
8 We're not good at it. I'm not sure I've ever really
9 encountered anybody that is.

10 And I guess the other thing that I would point
11 out here on the contribution to risk is the math is just
12 overwhelming. If you have a 50 percent stock portfolio,
13 50 percent bond - just making it easy, those two assets
14 classes - 80 percent of your risk comes from stocks.

15 COMMITTEE MEMBER TAYLOR: Stocks.

16 MR. JUNKIN: If you said, oh, well, that's too
17 much risk. We only want half of our risk from stocks, you
18 have to back it off to like 22 percent of your capital
19 deployed to stocks.

20 So the math is a huge challenge. And then you'd
21 have a 50/50 risk weight. But think of what that would do
22 to your expected return, you know.

23 COMMITTEE MEMBER TAYLOR: Right. Right. So
24 we're in the same boat as everybody else.

25 MR. JUNKIN: You are absolutely in the same boat.

1 And I think you've done some things like I mentioned with
2 the trust level strategies that are designed to help
3 mitigate some of the drawdown risk, and some other changes
4 within the asset allocation to try to address equity
5 volatility and additional diversification. Really, I
6 think you're on the right path. And this is -- this is I
7 guess my -- I feel like it's sort of my duty to help
8 people understand behaviorally that if there is a
9 drawdown, you know, be prepared. You can't avoid it.

10 COMMITTEE MEMBER TAYLOR: Right.

11 MR. JUNKIN: What you do in the moment to react
12 to it matters, right? And 2008 was a case so severe
13 where -- not at CalPERS, but we saw lots of investors
14 completely reevaluate their risk tolerance, i.e. they sold
15 stocks, at the exact wrong time.

16 COMMITTEE MEMBER TAYLOR: Right.

17 MR. JUNKIN: And that's -- that's how you
18 permanently damage the wealth of the fund. And the wealth
19 of the fund is what pays the benefits.

20 COMMITTEE MEMBER TAYLOR: So that leads me to the
21 we're a long-term investor.

22 MR. JUNKIN: Right.

23 COMMITTEE MEMBER TAYLOR: So therefore, one of
24 the things that sort of bothers me is that we do these --
25 these reviews on a monthly basis sometimes -- not all

1 these reviews, but we do a lot of these reviews on a
2 monthly basis, and I'm thinking maybe that's not a good
3 idea.

4 MR. JUNKIN: So we actually used to do this one
5 quarterly.

6 COMMITTEE MEMBER TAYLOR: That would be better.

7 MR. JUNKIN: And we're down to semiannual.

8 COMMITTEE MEMBER TAYLOR: That's good.

9 MR. JUNKIN: Yeah. And you get monthly
10 performance as part of your Board packet, but I don't
11 think we've ever spent a lot of time on a monthly basis,
12 unless there's been a significant --

13 COMMITTEE MEMBER TAYLOR: No, but it gets
14 reported out and hits the news, and that makes a
15 differences.

16 MR. JUNKIN: Yeah, for sure.

17 COMMITTEE MEMBER TAYLOR: So I did have one other
18 question real quick.

19 MR. JUNKIN: Okay.

20 COMMITTEE MEMBER TAYLOR: With the -- on page 18,
21 all of that dry powder. And I think this really might be
22 a question for Ben. We know the change in the market.
23 And it's not unusual we've got less, you know, companies,
24 but we have more competition for the deal. So what is
25 this -- how does this set us up for our new private equity

1 models? And I know we're going to discuss this later,
2 but...

3 CHIEF INVESTMENT OFFICER MENG: Yeah. Thank you,
4 Ms. Taylor.

5 First of all, to your question about our
6 drawdown, how are we -- what are we doing to prepare
7 ourself for the drawdown? So later in my session for the
8 report, I will speak to that.

9 And to your question on the dry powder, so this
10 reflects a number of things. For one, as you heard at the
11 January off-site, that there are -- more and more
12 companies are staying private for longer, so the market
13 opportunity set is shifting. So then you see that more
14 money being risked to chase the more opportunity, so that
15 makes sense.

16 And also your observation is absolutely right,
17 that -- you know, that means also more competition for us.
18 And as Andrew just mentioned, that also means that the
19 price we've had to pay for a company is higher now --

20 COMMITTEE MEMBER TAYLOR: Right.

21 CHIEF INVESTMENT OFFICER MENG: -- WHICH may
22 imply a lower return.

23 But again, later in my session on the private
24 equity business model, I will go into details to address
25 these challenges and how or what we are doing, and to take

1 advantage of our competitive advantages, namely our scale
2 and brand, so that we can better position ourself. And so
3 that would lead to our discussion Pillar 3 and 4.

4 COMMITTEE MEMBER TAYLOR: Terrific. Thank you,
5 Ben.

6 CHIEF INVESTMENT OFFICER MENG: Thank you.

7 CHAIRPERSON SLATON: Ms. Brown.

8 COMMITTEE MEMBER BROWN: Thank you.

9 Can I get we -- us to go back to slide 7? We
10 didn't actually talk about it yet.

11 MR. JUNKIN: Sure. Oops.

12 There we go.

13 COMMITTEE MEMBER BROWN: So even though I've been
14 here a year, I still need a little help with a definition
15 of terms. And I'm certain -- certainly for new Board
16 members, they probably do as well. So this is just an
17 overall picture of the asset class by performance, year to
18 year and then a five-year.

19 So help me with the definition of "emerging
20 markets". And I'm trying to see how that compares to
21 CalPERS emerging markets. I'm looking at definitions.

22 MR. JUNKIN: So emerging markets on this chart
23 would be emerging markets equities. So it would be
24 countries like Brazil, Russia, India, China. And do you
25 know the technical definition off the top of your head,

1 Ali or Ben? It's -- it's --

2 CHIEF INVESTMENT OFFICER MENG: Actually, there's
3 no clear definition of emerging market and developed
4 market. For example, the most common definition I've seen
5 that puts Singapore as an emerging country. So as we know
6 that per capita, Singapore has the highest GNP in the
7 whole world.

8 So to your point, there's no clear definition.
9 But as Andrew said, actually, it's safe to assume Brazil,
10 Russia, India, and China as the emerging market today.

11 COMMITTEE MEMBER BROWN: So it might be helpful
12 to sort of have what goes into that definition. It would
13 just be helpful to have that information, as well as what
14 are MLPs? I don't know. I'm sorry.

15 MR. JUNKIN: Yeah. The MLP part stands for
16 master limited partnership. It is --

17 COMMITTEE MEMBER BROWN: Okay.

18 MR. JUNKIN: -- it is basically pipelines.

19 COMMITTEE MEMBER BROWN: Okay. Great.

20 COMMITTEE MEMBER MA: It's what?

21 MR. JUNKIN: Pipelines.

22 CHIEF INVESTMENT OFFICER MENG: Oil and gas.

23 COMMITTEE MEMBER BROWN: Oil and gas. Okay.

24 MR. JUNKIN: So the -- the better analog, even
25 though these are publicly traded, those might be things

1 like -- they would roll into a larger basket of publicly
2 traded infrastructure, which is probably how we will
3 present it going forward. There are some publicly
4 strade -- traded infrastructure companies that run ports,
5 shipping facilities, things like that, in addition to
6 pipelines.

7 COMMITTEE MEMBER BROWN: Great. This is just
8 helpful, because it's an overview.

9 And then can we go to -- we didn't touch on page
10 11, which is the total fund performance. I think that one
11 is kind of important, so --

12 MR. JUNKIN: That's coming.

13 COMMITTEE MEMBER BROWN: Oh. So we're going to
14 go back to 11?

15 MR. JUNKIN: Yeah, we are, after 18. Like I
16 said, I can't get the pages in the right order no matter
17 what.

18 COMMITTEE MEMBER BROWN: Okay. Great. And
19 then -- and then I assume we're going to talk about 15 and
20 16 as well, the rolling excess returns, and the tracking
21 error. I think it would be helpful to have a definition
22 of tracking error. I'm sure I've talked to you about this
23 before, but it would be nice to have a definition as well.
24 Thank you.

25 MR. JUNKIN: Yeah.

1 CHAIRPERSON SLATON: Treasurer Ma.

2 COMMITTEE MEMBER MA: Yes. So I heard what you
3 said that competition is increasing, the prices are
4 increasing, lower expected returns. And I saw from your
5 page two chart, the expected return for private equity was
6 10 percent, and the expected risk was 28 percent, right?

7 MR. JUNKIN: Right.

8 COMMITTEE MEMBER MA: So higher returns, higher
9 risk?

10 MR. JUNKIN: Correct.

11 COMMITTEE MEMBER MA: So as I understand private
12 equity stands for private, right?

13 MR. JUNKIN: Right.

14 COMMITTEE MEMBER MA: I mean, otherwise it would
15 be public equity, and it would be traded, and everybody
16 would be know, right, with quarterly reporting. So how
17 would that impact us as a public entity investing public
18 money that want's to know what's going on with our
19 investments. I mean, how do you -- are we just going to
20 invest in companies that are okay with reporting, and
21 understanding, you know, who sits on the board, you know,
22 what their strategy is, you know, how long we have to
23 invest? Is it going to be, you know, one company? Is it
24 going to be many companies?

25 I just -- I'm having a hard time with the private

1 part of private equity. That's why they call it private
2 equity.

3 MR. JUNKIN: Right.

4 COMMITTEE MEMBER MA: They don't want to be a
5 public company. And you just said they're staying private
6 longer. So how do we, you know, kind of rectify us
7 sitting here as public members wanting more transparency
8 and information with the private equity folks that don't
9 want as much transparency and accountability.

10 MR. JUNKIN: Right. Great question. And I'm
11 going to defer part of it, because I'm not a private
12 equity operator, but there are reporting requirements to
13 CalPERS from the private equity managers about the
14 companies, about the performance of the companies. How
15 much transparency you get is probably driven by your
16 particular contract with that manager.

17 But I would suggest that's probably a better
18 question for either Meketa, as your private equity
19 consultant, or your private equity staff, who will know on
20 a day-to-day basis exactly what the reporting requirements
21 into CalPERS are. You get some level of transparency.
22 The biggest difference is -- between public and private
23 equity is you don't have a day-to-day price, right?

24 COMMITTEE MEMBER MA: Right.

25 MR. JUNKIN: You don't know where things are

1 executed.

2 CHAIRPERSON SLATON: Go ahead.

3 CHIEF INVESTMENT OFFICER MENG: Ms. Ma, to your
4 question, we're going to address the transparency -- your
5 transparency concerns in Item 7c. So after this item,
6 we'll do our trust level review and then we go into the
7 review of private equity business model. We'll have one
8 slide prepared to address your concern around
9 transparency.

10 COMMITTEE MEMBER MA: Okay. And then what is the
11 average time that these companies, you know, they show
12 their returns and they're higher than most of the others.
13 But I don't know, how long do people normally invest? Is
14 there an average?

15 MR. JUNKIN: So I can answer from an industry
16 perspective. Most private equity funds - pick a provider,
17 Blackstone - have a life of 10 years with a series of
18 possible extensions because the companies are illiquid.
19 So if they can't exit them within that 10-year window,
20 then they -- they would seek an extension to be able to
21 exit it on an orderly basis.

22 The fact of the matter is the holding period for
23 most private companies in the buyout space, which is the
24 bulk of your portfolio, is probably closer to four or five
25 years.

1 COMMITTEE MEMBER MA: And then what's the success
2 rate for these type of investments?

3 MR. JUNKIN: I don't know the industry success
4 rates in buyouts. You -- you know, the -- I'm going to
5 defer to Meketa on that one, rather than guess and be
6 wrong.

7 COMMITTEE MEMBER MA: Okay.

8 CHIEF INVESTMENT OFFICER MENG: Okay. So before
9 Meketa comes up, I can try to address your question. So
10 as Andrew said to the private equity fund, normally the
11 fund life is 10 years. And they have multiple one-year
12 extension, normally two to three. So they can drag along
13 to 12 to 13 years. But it is not uncommon to see fund
14 life, you know, around 15 years.

15 The investment period, again as Andrew said,
16 that's once you buy the company -- the private equity
17 manager, once they buy the company, they tend to hold it
18 for three to five years, but during the 10-year period, so
19 rotate, not just one batch of investments.

20 In terms of your other question, the success rate
21 really depends on the strategy. Certain part of the
22 strategy -- certain part of private equity strategy, for
23 example, angel investing and venture investing, they tend
24 to be high risk and high return. So it means that
25 actually the success ratio is lower, but each success the

1 payout amount higher. So it can be 10 times or 100 times
2 more of your money, but your success rate may be only 20
3 percent or 30 percent of it.

4 And for the more mature part of the strategy, for
5 example, large buyouts, so the expected return is lower.
6 Normally, the money you get back in four to five years is
7 two times to three times. Three times is a pretty good
8 deal already.

9 So the return is much lower, but the loss ratio
10 is much lower as well. I haven't seen good private equity
11 general partners in the growth and buyout area with a loss
12 ratio less than five percent. And sometimes, you see they
13 run a fund with zero loss ratio, but offset it capitalize
14 well.

15 COMMITTEE MEMBER MA: So that means people don't
16 lose money that much in certain funds depending on the
17 risk?

18 CHIEF INVESTMENT OFFICER MENG: Right. Yeah,
19 yeah. So in certain -- but you have to balance not just
20 losing money, also the gain as well. So if you put all
21 the fund -- all the investment in one fund together in the
22 portfolio on average, what kind of return? So on average,
23 buyout growth that we see on average the return is
24 comparable to the risk.

25 But you just see in -- in a higher riskier part

1 of it, you see a lot of dispersion among the deals,
2 some -- many of them do to -- lost everything, right? All
3 you need is just a few deals like Facebook make you a
4 thousand times of the money, and then that's carry the
5 entire portfolio. So a different strategy.

6 COMMITTEE MEMBER MA: Okay.

7 MR. JUNKIN: Just to further Ben's point, if I
8 may. On page 26, we talked a bit about pricing. The top
9 part of this chart is buyout market pricing, and this is
10 multiples of EBITDA, so it's the price you have to pay to
11 get a dollar of earnings basically. So you want to pay
12 less to get the same dollar versus more.

13 The market has moved to, you know, almost 11
14 times pricing. Coming out of 2008, it dipped town to
15 seven and a half, but really things began to accelerate in
16 the early part of the 2000s going from kind of six to
17 seven times to eight to nine times.

18 So when you look at - back to page two - our
19 expected returns, and I mentioned our expected returns on
20 private equity have come down, this is why. Prices in
21 general are up and prices in general are up, because of
22 demand for private equity, all the dry powder there.

23 Ben mentioned venture capital, which is at the
24 bottom. This is priced very differently in the scale.
25 Almost -- it almost doesn't make sense at the CalPERS

1 level. And that's why it's almost not a part of your
2 portfolio at all.

3 The venture capital failure rate, the anecdotes
4 that I've heard, essentially 10 or 20 percent of your
5 portfolio makes all of the money of the portfolio.
6 There's probably 60 percent that you don't lose money on,
7 and then there's probably 30 percent that goes to zero.

8 Depending on where you're investing, how close to
9 the inception of company. But in the angel or Series A
10 rounds here, you're investing in companies that may have
11 ideas, but no sales, right? They've got to figure out how
12 to go to market. And lots of things can go wrong from the
13 idea phase to actually being in business. But it may be
14 something that is a big enough idea or requires
15 significant capital to build, you know, plant, property
16 and equipment that you've got to take on an outside
17 investor.

18 The advantage of the buyout part of the market
19 relative to the venture part in that case is, A, it's
20 bigger, but B, those companies are already operating.
21 They have sales. They have cash flow. They may be in
22 need of some governance improvements. That's one of the
23 big strategies for how to make money in private equity is
24 to take a company that's doing okay and help them do much
25 better. And then sell it to somebody else, because you've

1 driven the price up, right? The earnings have gone up and
2 the price per dollar of earnings should have gone up as a
3 result. So that's essentially private equity buyout
4 strategies in a nutshell.

5 CHAIRPERSON SLATON: And just to add a point to
6 that, we're not in the angel --

7 MR. JUNKIN: No.

8 CHAIRPERSON SLATON: -- Series A investing.

9 MR. JUNKIN: No.

10 CHAIRPERSON SLATON: That is not our world.

11 MR. JUNKIN: Yeah, the initial investments
12 there - that's why the scale of this one doesn't really
13 make sense - less than \$10 million per investment.

14 CHAIRPERSON SLATON: Right, exactly.

15 MR. JUNKIN: Yeah, it just wouldn't --

16 CHAIRPERSON SLATON: Okay. Ms. Hollinger.

17 COMMITTEE MEMBER HOLLINGER: Thank you.

18 I just need to really remind everyone that I
19 don't really believe we can focus anymore or get this
20 false sense of security that we're a long-term investor.
21 We're at 68 percent funded. We have asymmetrical risk.
22 What that means is we have more of our population going --
23 maturing than coming into the system.

24 I believe maybe when the inception of the
25 pension, it might have been four to one for active

1 employees for every retiree. I think the ratio now is
2 closer to one to one. So we really have to get through
3 these next five to 10 years. It's really all about
4 focusing on our downside risk, because there is a point
5 where you cannot recapture. So I believe we have to stay
6 on top on reporting, and look at it in that context.

7 And I just -- and also God forbid we enter an
8 inflationary period with the COLA rider along with a
9 market downturn. So it's -- it's a different inning that
10 we're in than when we started.

11 CHAIRPERSON SLATON: Ms. Yee. Controller Yee.

12 COMMITTEE MEMBER YEE: Thank you, Mr. Chairman.
13 Congratulations.

14 CHAIRPERSON SLATON: Thank you.

15 COMMITTEE MEMBER YEE: Thank you, Dana, for the
16 reminder. And I think, you know, the focus that we've had
17 over the last several years on volatility is exactly
18 speaking to that point. And I was wondering if part of
19 the analysis, as we get these reports, could be how
20 successful the measures we've taken to reduce volatility
21 have been?

22 So in other words, how much lower would the
23 returns have been had we not, you know, taken some of the
24 measures that we have employed?

25 Is that a fair question? Is that doable?

1 MR. JUNKIN: It is doable. I was thinking
2 through the mechanics. There's -- there are a number of
3 different ways to take a look at that. We just need to
4 strategize and figure out the most appropriate way to do
5 it.

6 COMMITTEE MEMBER YEE: I mean, I think it tells
7 the story differently, but it's also, I think, to Ms.
8 Hollinger's point, kind of based in the reality that we're
9 dealing with today.

10 MR. JUNKIN: Right. Well, I think -- I mean, a
11 fair point would be that in 2016 leading up to the
12 election, CalPERS became a little bit more defensive in
13 their posture, a little less reliant on equities. And
14 then the market just roared ahead in 2017, as I mentioned,
15 right?

16 And so the flip side of protecting in downside
17 markets is you don't participate --

18 COMMITTEE MEMBER YEE: Right.

19 MR. JUNKIN: -- quite as strongly in the upside.

20 Now, so you'd look at 2017 and say, well, that
21 wasn't maybe the best decision. It was just a marginal
22 decision, right? It wasn't -- you didn't take all the
23 equity Money off the table.

24 But then the flip side is 2018. So just thinking
25 through how best to present that --

1 COMMITTEE MEMBER YEE: Right.

2 MR. JUNKIN: -- it can be done. And we'll take a
3 look --

4 COMMITTEE MEMBER YEE: Okay

5 MR. JUNKIN: -- and make sure that's part of it.

6 COMMITTEE MEMBER YEE: That's great. Thank you.

7 CHAIRPERSON SLATON: Okay. You can continue.

8 --o0o--

9 MR. KAZEMI: Good morning. Ali Kazemi, Wilshire
10 Associates. I'm going to be running through the rest of
11 the presentation focusing really on the performance of the
12 fund in 2018. I think a common theme we've talked about
13 here is really the return of volatility in the markets.
14 And certainly that manifested itself in 2018, but really
15 even in 2019, where we've seen quite a dramatic snapback
16 even in January and February. And so that volatility
17 seems to be something that will continue going forward.

18 Just in terms of the 2018 performance, the
19 quarterly return was negative 6.2 percent relative to the
20 Total Fund Policy benchmark of negative 5.7 percent. The
21 one-year return was negative three and a half percent.

22 Just to give you some context there in terms of
23 the snapback that we have in -- have had in January,
24 preliminary returns for the CalPERS portfolio in January
25 itself we're at 4.3 percent just for that month. So a big

1 table to the right, the actual allocation column and the
2 active management column. It's really the two dimensions
3 that tell most of the story here. Actual allocation gives
4 you an idea of relative to your policy if you were
5 overweight or underweight, did that manifest itself in
6 terms of either outperformance or underperformance.

7 You can see for the year of 2018, that total
8 actual allocation return was negative 12 basis points. So
9 collectively you lost 12 basis point due to those
10 underweights or overweights relative to policy. Within
11 the individual asset classes there, you can see that that
12 was primarily driven by real assets and private equity.

13 The reason that real assets had a negative 12
14 basis point contribution was the fact that you were
15 underweight relative to that asset class. That asset
16 class was a strong performer in 2018. So being
17 underweight in that asset class means you lose some value
18 there.

19 Private equity lost five basis points. You can
20 see in some of the public spaces, such as public equity,
21 there was a positive nine basis point there. Again, that
22 was due to the fact that you were underweight public
23 equities. Public equities, of course, did not do as well
24 in 2018, so that actually benefited the plan.

25 The other component to focus on is the active

1 returns.

2 --o0o--

3 MR. KAZEMI: On slide 16, you get an idea of how
4 that manifests itself in terms of the volatility to the
5 overall excess returns in the portfolio. And we can see
6 that in this low-volatility environment that we've been
7 in, up until the last year, tracking error has come down
8 quite considerably. And it's something we've seen for
9 most of the institutional investors that we work with that
10 the tracking error has come down.

11 You can see that that most recent reading there
12 is about 100 basis points. So just to give you some idea
13 of what the means, the idea there is that with about 68
14 percent confidence, we can predict that your excess
15 returns are going to be between the range of minus 100
16 basis points and plus 100 basis points. We've seen that
17 in the previous slide that it's actually been between 60
18 and negative 60.

19 But the idea there is to give you some measure of
20 what you could expect realistically in terms of your
21 excess underperformance or outperformance. So hopefully,
22 that addresses that.

23 --o0o--

24 MR. KAZEMI: So in terms public equities, we
25 certainly saw a halt to the momentum that we had earlier

1 equity environment. And so we certainly saw that.

2 And over the one, three, and five -- five year
3 numbers are quite strong for private equity. Double digit
4 returns across all time horizons. The value-add there are
5 negative across most of those periods. Not really an
6 indictment of the private equity portfolio. It really has
7 to do with more of the benchmarking, especially when you
8 have a public equity benchmark with a premium attached to
9 it. And a strong equity market that we've had over the
10 last 10 years, it's not surprising to have private equity
11 portfolios lag. The absolute returns of the portfolio
12 itself are still quite robust.

13 --o0o--

14 MR. KAZEMI: In terms of the fixed income
15 portfolio, in 2018, we did start to see rates rise for
16 most of the year. In the fourth quarter, that took a
17 u-turn, really. The 10-year, shrunk from a peak in
18 November of about three and a quarter to around 2.6, 2.7
19 percent.

20 So with that compression in rates, you saw really
21 some benefits of diversification income. You can see that
22 sleeve of the portfolio had a positive return of 90 basis
23 points in the quarter. So that was a little bit of a --
24 of a back -- a stop to what we saw in the equity markets.

25 So that added benefit from being invested in the

1 income portion of the market was great. Other drivers
2 that were positive in the fourth quarter were the
3 mortgage-backed security market, which also had a positive
4 return.

5 Things that did not do well from an income
6 standpoint are spread-sensitive assets, so high yield
7 credit type assets. Really, we did have a flight to
8 quality in the fourth quarter. So the junk year bonds did
9 really, really poorly in the fourth quarter as higher
10 quality did outperform lower quality within the high-yield
11 segment of the market.

12 --o0o--

13 MR. KAZEMI: So we touched on the real asset
14 portion of portfolio and the attribution being one of the
15 major drivers of the underperformance in 2018. One of the
16 big drivers of underperformance in the real assets space
17 were energy. Oil prices dropped about 38 percent in the
18 fourth quarter, and so that was a big reason for why
19 overall real asset absolute returns were so poor in the
20 fourth quarter.

21 --o0o--

22 MR. KAZEMI: That manifested itself somewhat in
23 your inflation portfolio. You've got not as much as --
24 exposure to commodities as you do inflation-sensitive
25 assets. But if you look at the commodity returns there

1 for the quarter down 24 percent relative to
2 inflation-linked bonds, which were down just 40 basis
3 points. That Dispersion there was enough to help drive
4 the overall quarterly return for the inflation portfolio
5 to be down 6.4 percent for the quarter and down 5.3
6 percent for the year.

7 Relative to your policy, things were positive
8 there, but the overall impact of energy price decreases
9 and moderating inflation in the fourth quarter led to the
10 overall negative return we saw in the inflation segment of
11 the portfolio.

12 --o0o--

13 MR. KAZEMI: And then in your real asset
14 portfolio, really that portfolio is going to be correlated
15 to your real estate sleeve. You've got about 75, 85
16 percent of the assets in real estate in that segment of
17 the portfolio. So how real estate does is really going to
18 drive that portion of the portfolio.

19 You can see, the real estate had a negative
20 return for the fourth quarter, which I think is the first
21 negative return in quite some time, almost eight years for
22 that -- that segment of the market.

23 Things that drove the underperformance for real
24 estate, relative to your policy benchmark, had to do with
25 things like the retail market, the emerging -- emerging

1 any questions.

2 CHAIRPERSON SLATON: Thank you.

3 Mr. Jones.

4 COMMITTEE MEMBER JONES: Yeah. Thank -- thank
5 you, Mr. Chair. Yeah. I'd like to go back to chart --
6 your chart, page 11 and iPad page 134. And I was looking
7 at the real assets, the 10-year, you mentioned that the --
8 the financial crisis of 2008 had rolled off. And so why
9 then is real estate so low, that 1.4 percent, because you
10 mentioned that private equity lags in reporting, is that
11 the same thing happening here?

12 MR. JUNKIN: That's -- that's exactly right. So
13 the worst of the global financial crisis really was the
14 fourth quarter 2008, and the first quarter of 2009 until
15 about March 11th. And it's sad, here we are 10 years
16 later and I remember the day within a day or so of the
17 bottom of the market.

18 What that did though, when it came to your real
19 estate portfolio, those write-downs that occurred
20 continued -- the write-downs continued through the end of
21 2009, just because of the appraisal, the delay in the
22 valuation. Just like I can tell you with a -- with a
23 pretty high degree of certainty, that your private equity
24 portfolio for the first quarter is going to have negative
25 returns, because it's really going to reflect what

1 happened in the 4th quarter.

2 I'm not a genius. I just can figure out that --
3 I can just look back a quarter. So the -- you think about
4 some of the real estate issues, the land deal in
5 particular, that took some time to sort through and fully
6 see the write-down of that, and that's exactly why that
7 number is as it is.

8 COMMITTEE MEMBER JONES: Okay. Thank you.

9 CHAIRPERSON SLATON: Treasurer Ma.

10 COMMITTEE MEMBER MA: Yeah. So how often do we
11 evaluate or go through our real estate portfolio?

12 MR. JUNKIN: As a Board, I assume that's the
13 question

14 COMMITTEE MEMBER MA: Yeah.

15 MR. JUNKIN: Yeah. So there's -- there's -- real
16 estate has an annual plan that's presented once a year,
17 hence the name, that goes into detail on the strategy that
18 they're pursuing. PCA does a review of the Real Estate
19 Program that coincides with that, so -- and then there's
20 these reports twice a year. So you've got multiple
21 touchpoints.

22 In addition, all three of the consultants
23 interact with the real assets group on a weekly basis on
24 the Real Assets Investment Committee. We all dial in, and
25 there's discussion of portfolio strategies and

1 opportunities then. So there are lots and lots of
2 touchpoints.

3 But on a formal sort of Board-level review basis,
4 it's probably those, the two annual items that I
5 mentioned, the real assets plan and the review by PCA, and
6 then the two performance reviews, this being one of them.
7 The next being in August.

8 COMMITTEE MEMBER MA: Okay. So I wasn't here
9 last year, but I would like to see what the last report
10 was.

11 CHAIRPERSON SLATON: Okay. All right. We have
12 no further questions at this time.

13 All right. Thank you very much.

14 We'll now move to the staff on 7b.

15 CHIEF INVESTMENT OFFICER MENG: Good morning,
16 everyone. Good morning --

17 CHAIRPERSON SLATON: By the way, while he's
18 getting organized, we do, Treasurer Ma, on the real estate
19 side in closed session, if we have specific projects,
20 those would be discussed during closed session. So we
21 have those in addition to the touchpoints that they
22 mentioned.

23 Right, exactly. So we need to get you up to
24 speed on that. We will.

25 CHIEF INVESTMENT OFFICER MENG: Okay. Mr.

1 Chairman, I would just remind you that now is the time for
2 PCA and Meketa to come up to talk to you before we conduct
3 our trust level review.

4 CHAIRPERSON SLATON: Oh, correct. My apologies.
5 You're exactly right.

6 CHIEF INVESTMENT OFFICER MENG: That's okay.
7 It's my first time as well. I've a couple -- I've made my
8 share of mistakes already.

9 (Laughter.)

10 CHAIRPERSON SLATON: Well, we'll -- we'll --
11 we'll struggle through this together.

12 (Laughter.)

13 MR. HARTT: Thank you very much.

14 Wait for our slides to come up.

15 So Steve Hartt from Meketa Investment Group.
16 Pleased to be with you this morning. Joining me is Hannah
17 Schriener who works with me.

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

20 MR. HARTT: First, I'd like to thank Andrew for a
21 wonderful discussion about private equity. He's welcome
22 to join our group --

23 (Laughter.)

24 MR. HARTT: -- and participate on the private
25 equity any time.

1 And there were a number of questions. And I
2 thought also this morning I would start out with a couple
3 of comments about private equity, as we think about this,
4 as well as the new Board members coming on board. So
5 we've touched on a couple of these topics, but I wanted to
6 go through and reinforce them.

7 So one of the questions is why investing in
8 private equity? And sort of was discussed here with
9 Wilshire, and Ben as well, is that private equity has been
10 a very strong asset class for returns, and is projected to
11 continue to perform strongly.

12 Number two, as a long-term investor, CalSTRS --
13 CalPERS can earn the return premium that comes from the
14 illiquidity that is in that asset class. But we recognize
15 there is a number of issues that we've talked about in
16 several venues. But one of them is the high fees, the
17 lack of transparency issues around that. Also talking
18 about there's limited ability to control your exposures in
19 private equity, the total NAV, and kind of what industry
20 exposures, things of that nature.

21 And there's also headline risk. So the
22 opportunity that a manager or a portfolio company might do
23 some things that could be -- could be challenging come
24 back to CalPERS.

25 So what are some of the opportunities available

1 to CalPERS?

2 They have a -- you have a large and sophisticated
3 staff. You can invest at scale. And there is a potential
4 here with this program to invest in kind of opportunistic
5 transactions like co-investments and secondaries. Some of
6 the challenges that we've talked about investing at scale
7 is hard. What we're talking about in terms of a pacing to
8 be able to deploy eight to ten billion dollars a year
9 every year is a challenge to do in this marketplace.

10 Looking at the portfolio, we'll talk about some.
11 But buyouts, especially the large and the mega buyouts is
12 a very large part of the portfolio. And it will continue
13 to tilt that way, because that's where investing at scale
14 can be done.

15 The portfolio is complex. There are execution
16 issues around that, particularly if we talk about some of
17 the additional pillars that are being contemplated.

18 And lastly, it's hard to benchmark. It's really
19 difficult to see and understand in a short time frame in
20 particular if -- is the portfolio doing what it's supposed
21 to do, is staff doing a good job? These issues, in terms
22 of benchmarking, are endemic to private equity.

23 So in terms of some of the initiatives that are
24 undergoing now within CalPERS, the commitment pace in
25 terms of the commitments to new private equity managers

1 and funds has increased over time. Look for that to
2 continue to increase. There is a redeployment,
3 reenergization in the Emerging Manager Program looking to
4 find new managers to help refresh the pool of managers to
5 choose from, and looking to potentially reengage in some
6 of these opportunistic transactions, co-investments and
7 secondaries that have been not done in the last several
8 years.

9 And then obviously talking about the Pillars 3
10 and 4 and the opportunities there as CalPERS, as an
11 investor at scale, to be able to deploy capital in some
12 relatively interesting ways compared to other investors in
13 the marketplace.

14 So I just wanted to start out with that in terms
15 of an overview before diving into the portfolio itself.

16 --o0o--

17 MR. HARTT: So what I'm going to talk about here
18 is the performance of the portfolio as of December 31st,
19 2018, but to recognize that the values that are here, in
20 terms of the underlying portfolio, is as of September, and
21 that the cash flows are adjusted to -- through the end of
22 the year, but the values are as of September.

23 Basically, the performance of the plan is on
24 plan -- the portfolio is on plan. It is just under \$28
25 billion in size right now in terms of NAV, and about a

1 little over eight percent right about the target that's
2 expected for the program.

3 As I mentioned, that buyouts is two-thirds of the
4 exposure. And that's up from about 62 about a year ago.
5 So that continues to be a strong part of the program. The
6 United States represents 60 percent of the portfolio.
7 Again, that is -- that is in line with the marketplace and
8 unchanged from the prior year. Fund investments are the
9 largest part of the program, up slightly from about a year
10 ago at 72 percent.

11 --o0o--

12 MR. HARTT: So the program, in terms of
13 performance overall in the last six months had a \$1.7
14 billion value increase. In other words, the value of the
15 assets, leaving aside the cash flows, the contributions,
16 distributions, the total value of the program went up by
17 1.7. And for the full year, it went up over \$3 billion.

18 While the program has underperformed its policy
19 benchmark and talking about the public equities aspects of
20 it, and some of the changes that had taken place in the
21 benchmark over time, if you look at how the performance
22 has been against the newly adopted benchmark for private
23 equity, the FTSE All-World plus 150 basis points, it is
24 pretty much on top of that, and some places exceeding
25 that, especially over the longer term.

1 In terms of the activity, the program still is
2 receiving more cash back from its general partners and its
3 manager than it's contributing in. And that is likely to
4 change somewhat over time as the new commitments are being
5 deployed and being called upon.

6 For the second half, staff committed to eight new
7 investments, a little over \$3 billion, and for the full
8 year did 18 commitments for \$6 billion. And just
9 highlighting that CalPERS has received net cash of over
10 \$32 billion in the -- since 2011.

11 I'm going to turn it over to Hannah to talk a
12 little bit more about some of the marketplace.

13 --oOo--

14 MS. SCHRINER: Thank you, Steve.

15 So I'm going to focus on just a few of the slides
16 here in the market review building on what Wilshire had
17 already commented on, but focusing on U.S. buyouts, which
18 is the largest portion of your private equity portfolio.

19 So on page seven, what this shows you is the
20 activity -- you know, the deal activity that occurred
21 during 2018, and then the previous 12 years as well. So
22 what you see on the far right of this chart here is that
23 the buyout activity was very strong in 2018. It was the
24 highest deal count on record at 5,050, and then the second
25 highest deal value on record at 804 billion.

1 Fourth quarter was also the highest deal value on
2 record for a quarter at 282.7 billion, which was driven by
3 several mega deals, which are greater than one billion in
4 value. There was the \$21 billion buyout of Dr. Pepper
5 Snapple, and then also 17 billion buyout deal of 55
6 percent of Thomson Reuters.

7 And we do expect this trend to continue the
8 strength. And as you'll see in a couple other slides, you
9 know, exit activity and fundraising continue to be strong
10 as well.

11 So we'll turn to page nine.

12 --o0o--

13 MS. SCHRINER: So looking at the exit activity,
14 what this shows is it has remained pretty consistent over
15 the past several years in terms of the dollar values. So
16 at 365 billion there and 1,049 number of exits. So PE
17 firms they took advantage of the high purchase price
18 atmosphere in 2018.

19 And the median exit size was 330 million, which
20 is the largest on record. And as already mentioned by
21 Wilshire, you know, longer holding periods are leading to,
22 you know, not as strong exit activity as you're seeing
23 that dry powder in the market.

24 Turning to page 14.

25 --o0o--

1 MS. SCHRINER: Looking at fundraising. So we did
2 see record deal making in 2018. That was the first slide
3 that I had went over. That was driven largely by the past
4 fundraising -- fundraising strength, as you see in 2016
5 and 2017. There were few mega funds closing this year in
6 2018. As you see, the total capital raised was at 166
7 billion, and the number of funds closed was down at 186.

8 We did see again the larger funds -- mega funds
9 were closing. There were only five during the year at
10 52.8 billion, which is compared to 10 in 2017, so about
11 half -- half the number and half the size. Carlyle closed
12 the seventh flagship fund at 18.5 billion. And then
13 Hellman and Friedman also closed their ninth flagship fund
14 at 16 billion. So there's still very large funds out
15 there in the market. And we do expect 2019 to be another
16 strong year as well.

17 --o0o--

18 MS. SCHRINER: And I'll turn it over to Steve to
19 cover the portfolio overview.

20 MR. HARTT: So we'll go quickly over here.
21 The -- these numbers don't change radically from report to
22 report, but we can see that the -- the exposure to buyouts
23 continues to increase generally over time, and the
24 exposure to credit continues to decrease as staff has been
25 emphasizing the buyout size. But in all cases, the totals

1 as a percent of NAV are on target with their subasset
2 class targets.

3 --o0o--

4 MR. HARTT: As we talked a little about before,
5 that on page 20 that the exposure by region with the
6 United States at very high, some managers are -- might be
7 overseas, but they also have some investments in the
8 United States or the other way around.

9 --o0o--

10 MR. HARTT: Looking at the next page here, this
11 is where it says at the asset level that the U.S. managers
12 more often will have exposure overseas than the other way
13 around than overseas managers having it in the United
14 States. So where -- on the asset level exposure, it's
15 about 60 percent.

16 --o0o--

17 MR. HARTT: Looking on the page 23 at the vintage
18 year composition, this is showing where the exposure is,
19 and can see that the exposure for uncalled commitments is
20 predominantly related into the most recent few years,
21 which makes sense.

22 --o0o--

23 MR. HARTT: In terms of the largest manager
24 relationships, this list doesn't change very much,
25 particularly Blackstone has perennial been the largest

1 exposure for CalPERS. The next three, Carlyle, CVC, and
2 Apollo might change a little bit up or down, but those are
3 consistently in the top four. And TPG, at this point, a
4 large manager, has the fifth largest exposure at this
5 point.

6 --o0o--

7 MR. HARTT: Mentioned earlier in the comments,
8 talking about the cash flows on page 27, that what this
9 graph represents is on an annual basis is the CalPERS
10 program on a net basis contributing more into their
11 managers or are they receiving more cash back?

12 So one can see there that since 2011 that that
13 line there showing that, on a net basis, that CalPERS has
14 been receiving cash back. That peaked in 2013, and has
15 been slowly coming down as the prior year investments are
16 being liquidated and the cash being returned, as well as
17 the new commitments that are being -- and those are
18 tailing off, and then the new commitments that are coming
19 on board as the staff makes additional commitments. And
20 those are being drawn down.

21 --o0o--

22 MR. HARTT: So I'll pass it to Hannah to talk
23 about the program performance.

24 --o0o--

25 MS. SCHRINER: So looking at the program value

1 changes, Steve had mentioned in his opening comments, the
2 total value change was positive at 1.7 billion there. We
3 also see that for the second half of 2018, contributions
4 totaled 2.3 billion, distributions from the program were
5 3.4 billion, and the ending net asset value was 27.8.
6 These are cash-flow adjusted NAVs as well just to remind
7 you. And for the full year, that total value change was
8 at 3.3 billion.

9 --o0o--

10 MS. SCHRINER: And on the next page, 30, looking
11 at the program performance, so expanding on Wilshire's
12 previous comments and review, we see the total program.
13 The one-year performance is 12.5. But if you look across
14 the three-, five-, and 10-year, pretty solid and strong
15 consistent performance from the Private Equity Program,
16 underperforming the policy benchmark over all periods.

17 And then the Cambridge Associates all PE Global,
18 which is a peer -- more of a peer group, underperforming
19 that as well. But if you look over the 10-year, pretty
20 much in line, and then outperforming over the one-, five-,
21 and 10-year versus the FTSE All World Plus 150 basis
22 points, so the public market benchmark plus a premium.

23 --o0o--

24 MS. SCHRINER: And if we break down the
25 performance by strategy, again buyouts accounting for the

1 largest portion of the program, again, you see that -- the
2 pretty strong consistent performance there up 15.3 percent
3 for the one-year period, and 11.7 percent for the 10-year
4 period.

5 You do see, as we look down pretty, you know,
6 volatile performance for the venture. And then also the
7 credit portfolio on the shorter term. Those do account
8 for a smaller portion of the total program. So again, you
9 know, comments on the previous page were the strong
10 consistent performance is largely attributed to the
11 buyouts.

12 --o0o--

13 MS. SCHRINER: On the next page looking at the
14 performance by structure, so funds which do account for
15 the largest portion of the total program, they have very
16 strong consistent performance across the board. The
17 co-investments, direct investments, those are very
18 concentrated. So you will see quite volatile performance
19 there as one or two investments can really swing the
20 results.

21 --o0o--

22 MS. SCHRINER: Looking at performance by
23 geography, the United States again accounting for the
24 largest portion there followed by Europe, strong
25 performance across the board developed Asia. You know,

1 the one year number does stand out there, negative 25.5
2 percent, but that accounts for a very small portion of the
3 program.

4 And at are our last -- or at the 2017 year-end
5 review, that program one-year return was up 42 percent.
6 So that just gives you an idea of how that -- the large
7 swing there. And that performance on the one-year was
8 driven by mark downs of assets within a Japanese-focused
9 buyout fund.

10 --o0o--

11 MS. SCHRINER: And with that, I'll turn it over
12 to Steve to cover program activity.

13 MR. HARTT: So in the second half of 2018, the
14 staff committed to eight managers in the funds there.
15 They're listed and the amounts. All of these managers are
16 known to the CalPERS team, and ones that they have known
17 for quite awhile. As I mentioned previously, for the
18 whole year, staff committed to 18 different vehicles at \$6
19 billion dollars.

20 That's all the comments that we have. Happy to
21 take any questions.

22 CHAIRPERSON SLATON: All right. Ms. Brown.

23 COMMITTEE MEMBER BROWN: Thank you.

24 Let's just stay with page 35. Steve, can we --
25 when we talk about these completed investments and the

1 commitments, we really haven't given them the cash yet,
2 right? These are just agreements. This could be
3 essentially a lot of it dry powder, is that correct?

4 MR. HARTT: It gets -- one could think of it as
5 additional bride -- dry powder that was talked about
6 previously. So, yes, it's a commitment and an opportunity
7 for the manager to usually, over about a five-year time
8 period, be able to draw that capital for new investments.

9 COMMITTEE MEMBER BROWN: Great.

10 Then can we go backwards to page 31.

11 One more page.

12 Thank you.

13 When we look at credit as having the lowest
14 one-year return, or the lowest returns maybe except for
15 venture, can you just give me a definition of what's in
16 that credit portfolio or credit strategy?

17 MR. HARTT: Sure. And --

18 COMMITTEE MEMBER BROWN: I'll just take general
19 if you --

20 MR. HARTT: Yeah. So on page 19 has a breakdown
21 of what that is. And while we flip to that page, there
22 are two major areas where the exposure is in the
23 distressed area. The performing loan part of a credit
24 strategy is moved off to the fixed income area. So the
25 private equity folks are focused on the distressed assets.

1 So these might be companies that are not
2 performing well, but they could see that their underlying
3 intrinsic value might be high, so an opportunity to invest
4 in those. So more opportunistic.

5 So if you call Howard Marks would be a
6 practitioner in this area that came to speak to you. So
7 distressed is by far the largest -- the largest part of
8 that.

9 COMMITTEE MEMBER BROWN: Great.

10 Can we go back to page 30 then?

11 By the way, I take my exams the same way. I go
12 backwards -- start from the back and go forward.

13 So when I look at this program performance, it
14 looks like we've underperformed our policy benchmark, and
15 then the PE global. And then this new benchmark, this
16 FTSE All-World plus this little bonus, or 150 points, is
17 that currently now our new benchmark that we changed?

18 MR. HARTT: So the -- at the recent adoption in
19 the policy, the FTSE All-World 150 basis points was the
20 one that was adopted for private equity on a go-forward
21 basis. So I believe since June I think that that was
22 moving forward with that, yes. So this represents just a
23 small time period for that benchmark to be incorporated
24 into the policy benchmark.

25 COMMITTEE MEMBER BROWN: Great.

1 And I would assume you would concur with what
2 Mr. -- maybe I won't assume. Mr. Junkin said that we
3 should expect again underperformance in private equity for
4 the first quarter of 2019, is that what we heard him say,
5 and do you agree with that?

6 MR. HARTT: Since the private equity assets are
7 appraisal-based valuations, then it's going -- most of the
8 time, it's based upon public market comparables. That's a
9 very common way values are being done. So since December
10 31st would be a difficult -- you know, the values of the
11 public stocks will be relatively low. So one would
12 expects, in general, that the values would be down from
13 September based upon that appraisal. Managers have not
14 provided those numbers as of yet, but I think
15 forward-looking that's probably right, so that one
16 quarter.

17 But, you know, thinking about if we stay on the
18 same path that we are today and markets, you know, get
19 back to that, it will go back up, you know, once the March
20 numbers come in.

21 COMMITTEE MEMBER BROWN: Great. And just -- this
22 doesn't refer to a slide. But based on your opening
23 remarks about how that CalPERS is looking at reengaging
24 into -- with co-investments and secondaries, I am fully
25 supportive of that. It's been distressing that we haven't

1 done it over the last several years.

2 But whatever the staff needs or whatever you can
3 do to help us pick that low-hanging fruit, let us know.
4 And I'm sure a lot of the other Board members here are
5 supportive of that as well.

6 Thank you.

7 MR. HARTT: Absolutely. Thank you.

8 CHAIRPERSON SLATON: Mr. Miller.

9 COMMITTEE MEMBER MILLER: Yeah. Thank you very
10 much. Just a couple of thoughts to kind of run by you.
11 And I'll preface this by saying that I, for a long time,
12 have believed that for us, for our overall equity
13 portfolio, as these markets evolve, I would see CalPERS
14 doing more private equity proportionately over the time.
15 It seems like the markets are evolving to have more of the
16 opportunities in private equity. But as those markets
17 evolve, it also seems that, you know, we've talked a
18 little bit about the change in the whole valuation
19 situation. And trying to benchmark that against public
20 equity, where you could see the day-to-day prices, is
21 challenging.

22 But over time, we're seeing, you know, prices go
23 up. More people chasing deals. And so we've seen that
24 impact on the way it's evolving.

25 And the whole business of the illiquidity and

1 what kind of premium we need to expect to get back when
2 we're contemplating kind of longer term strategies to
3 leverage our advantages with scale, and being able to
4 do -- structure different kind of deals than we've done
5 before.

6 But it looks to me a little bit like, you know,
7 as the kind of risk-adjusted returns, taking those -- all
8 those things into account between public and private
9 equity seem to be somewhat converging. But it gives us
10 the opportunity to kind of outperform, because of our
11 advantages. And maybe in the long run, kind of the
12 benchmarks we should be looking at might not just be, you
13 know, these aggregate, like FTSE or S&P 500.

14 But, you know, I think we might be expecting to
15 still outperform public equities at large, but maybe look
16 more at, you know, top quartile or something managers and
17 performers, because I don't think, you know, the kind of,
18 you know, public equity plus 100 basis points, or those
19 kind of models, will holdup in the long run.

20 I think we really need to look at, you know, that
21 as part of our overall diversification strategy, but, you
22 know, as time goes on hone in on what really is the
23 benchmark for the performance of this, because it's -- the
24 more simple review of it just doesn't seem to be working
25 anymore. And I find it almost overwhelming to kind of

1 keep track of what's going on in the big picture with
2 public equity these days.

3 MR. HARTT: You know, as I mentioned, and would,
4 you know, repeat and emphasize, that benchmarking private
5 equity is very hard. Typically, there's a number of
6 questions you're looking to try to answer when you're
7 doing the benchmarking. And it's challenging to find, you
8 know, ones -- one way of benchmarking to answer all the
9 different questions.

10 One question is sort of an existential one,
11 should we be investing in private equity at all, given an
12 alternative might be is public equity, right? So there's
13 a reason for over a long period of time to think about
14 that.

15 There is also to take a look at the -- at the
16 peer universe. Is the portfolio that CalPERS been putting
17 together, is it capturing the private equity premium, how
18 do -- are other investors investing in the asset class,
19 and what are their returns looking like, and, you know,
20 what is that performance looking like? So there's that
21 aspect. And, you know, why we put in the Cambridge
22 Associates one is that's a peer index.

23 And then lastly a question is staff doing a good
24 job, given its -- its constraints and opportunities? How
25 do you try to do -- you know, what's the benchmark for

1 looking at that? So there's lots of different things that
2 one needs to use benchmarks for, and there's some tools
3 that are better than others.

4 And I think it's just going to take a matrix of
5 these different benchmarks to look at. And it's going to
6 be complex to try to get to the answer. And there might
7 not be, you know, one answer one way or another, but
8 rather, you know, a number of things over time. So, yeah.

9 COMMITTEE MEMBER MILLER: Thank you.

10 MR. HARTT: Sure.

11 CHAIRPERSON SLATON: Ms. Taylor.

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

13 I just kind of want to follow up on what you just
14 said actually. Benchmarking, I know that we changed it,
15 because it's so hard -- it's difficult to benchmark
16 private equity. I understand. One of the things that you
17 said, because I was going to say something about our
18 staff, but you said it's a way to make sure staff is doing
19 well or a good job. What is your opinion on that?

20 MR. HARTT: I think our --

21 COMMITTEE MEMBER TAYLOR: On our Private Equity
22 staff, I'm sorry.

23 MR. HARTT: So I think that the -- that staff
24 is -- has -- in terms of managing the portfolio and
25 deploying assets, that the performance is, you know,

1 meeting the new benchmark level, and is near, over a
2 long-term basis, what the peers in the private equity
3 universe is doing.

4 The other thing is that it's -- so using these
5 quantitative measures is very long term, and how those get
6 realized, so looking at a 10-year performance number, the
7 staff that's here today is not necessarily the staff that
8 was here at the time that it was making some of these
9 decisions. There's some things about that.

10 So I think then looking at today, what are the
11 things that the staff needs to do? It needs to
12 effectively identify and commit to high quality managers.
13 And that's some of the things that we're doing. We're
14 looking and we review -- you know, as participating on the
15 Investment Review Committee, we get an active look on that
16 and be able to see that. So that is -- I can say is a
17 very thorough and deep analysis on managers. And nobody
18 gets a free pass. And it's, you know, well -- well
19 thought through.

20 Another one is to think about from a program
21 basis, in order to maintain the exposure that -- being
22 sought for from an asset allocation perspective, there
23 needs to be additional deployments just thinking about the
24 model. And you never know kind of where it is. But if
25 you think about a model -- it's been talked about several

1 times that around \$10 billion of commitments per year
2 needs to be done.

3 So the staff has been lower than that, and, for a
4 variety of reasons, hasn't been taking advantage of all of
5 the opportunities that it can do in terms of say
6 co-investments and secondaries that are being thought of.
7 But that -- that's been some issues.

8 So I think that -- is staff doing a good job? I
9 think it's a multi -- I'm saying there's multi-faceted
10 parts -- answer to that question. I think that they're
11 doing a good job in terms of identifying and investing
12 with high quality managers today. And I think that there
13 is additional paths being made, and activities being made,
14 initiatives today to be able to deploy at the scale in a
15 quality fashion, so that CalPERS can have the right
16 exposure to the private equity asset class.

17 COMMITTEE MEMBER TAYLOR: So, and you're saying
18 that their deployment hasn't met what we had hoped to
19 deploy. But isn't that kind of part of the problem with
20 private equity right now is that the deals are difficult
21 to get into, and there's a whole bunch of dry powder
22 sitting out there? Because I think you said we had a \$1.7
23 billion increase in the last quarter in terms of
24 commitments. And then a \$3 billion increase over the
25 whole year from our staff, is that correct?

1 MR. HARTT: So there was a \$1.7 billion value
2 increase in the portfolio --

3 COMMITTEE MEMBER TAYLOR: Value increase.

4 MR. HARTT: -- and a \$3 billion value increase
5 over the full year. So --

6 COMMITTEE MEMBER TAYLOR: So we have committed
7 more, so we're doing a little better.

8 MR. HARTT: So it's -- what that is is just
9 looking at the value of the portfolio itself. So staff
10 had made commitments in the -- in the second half of the
11 year of 3.1 billion, and then for the whole year of six
12 billion. So it takes awhile for that capital to be
13 called, and deployed, and put into investments, and then
14 for the value to increase. So it takes quite awhile for
15 that to get reflected in.

16 I just also want to emphasize too that it's a
17 full staff decision to think about -- and the process they
18 go through to think about how much they ought to be
19 committing every year. So there's an interaction between
20 the private equity team and the broader CalPERS staff to
21 think about what's going to be the budget that they're
22 going to be able to have to deploy.

23 So they haven't been -- the private equity staff
24 has not been budgeted to the \$8 to \$10 billion a year.
25 They've been budgeted a lower number. Right now, that

1 just been increased to 7.3 billion, as I understand.

2 COMMITTEE MEMBER TAYLOR: Um-hmm.

3 MR. HARTT: So -- but I think that that -- as
4 they go through and think about deploying capital, the
5 number of commitments has increased, the amount of capital
6 that they've committed has increased, the quality level
7 remains high. I do think it would be a challenge to do
8 \$10 billion just in fund investments. So I think that is
9 an impetus to why other -- these other opportunities, the
10 opportunistic ones of co-investments and secondaries, and,
11 you know, why there's discussion about the Pillars 3 and 4
12 is over the longer period of time when, let's say, the
13 fundraising environment is not quite so robust, to still
14 have ways/tools to be able to deploy capital is going to
15 be important to not -- not necessarily be reliant upon the
16 general partner's fundraising cycle. If they go up or
17 down, you still want to have CalPERS be able to deploy
18 regularly and consistently in the asset class.

19 COMMITTEE MEMBER TAYLOR: Okay. Thank you.

20 MR. HARTT: Sure.

21 CHAIRPERSON SLATON: Ms. Brown.

22 COMMITTEE MEMBER BROWN: Thank you, Mr. Chair.

23 Earlier when we were talking about co-investments
24 and secondaries, I said I supported it. But I forgot to
25 ask my question for you, which was has Meketa prepared

1 reports on how past co-investments have done?

2 MR. HARTT: We have not prepared one. There
3 is -- the performance line here, you can look on page 32.
4 So the co-investments, direct investments, the performance
5 by structure. So over the long term, the 10-year period,
6 is the strongest performing segment.

7 So, I -- I would say -- so we've not done a
8 review and done that analysis. But I would say that the
9 appropriate strategy is to be consistent and to do -- to
10 build a portfolio. Not do too many. Just one large one,
11 and take your foot on and off the gas.

12 COMMITTEE MEMBER BROWN: Um-hmm.

13 MR. HARTT: Again, it's important to develop that
14 portfolio and have diversity of different kinds of deals
15 and different vintage years to be able to try to get that
16 performance.

17 COMMITTEE MEMBER BROWN: Great. And have you
18 done reports like these for other clients on
19 co-investments? I would just like to see what one would
20 look as opposed to this. This is all rolled up, right? A
21 more detailed report and analysis, I would like to see
22 that at some point in the future. Because I'm saying I
23 like co-investments, but I really don't know how they --
24 how CalPERS' past co-investments have performed. And it
25 would be nice to see what those are as we push forward.

1 Mr. Meng, do you want to answer that for me?

2 CHIEF INVESTMENT OFFICER MENG: Yes. If I may,
3 Ms. Brown. So our staff currently is conducting a very
4 thorough research on the topic of co-investments. And we
5 should be ready to discuss -- have an internal discussion
6 and then at the appropriate time to discuss with the Board
7 what we see -- we view as a co-investment opportunity in
8 the marketplace now, and how CalPERS should play that
9 game. So currently, we have a very comprehensive study
10 undergoing, and should be done pretty soon.

11 COMMITTEE MEMBER BROWN: Great.

12 Mr. Chairman, I hope we could agendize that, as
13 soon as it's ready, that report. Thank you.

14 CHAIRPERSON SLATON: Um-hmm. Good.

15 So I just had one quick. If you go back to the
16 program performance chart, you know, I just wanted to get
17 your opinion on the --

18 MR. HARTT: On page 30, is that right?

19 CHAIRPERSON SLATON: That's page 30, correct.

20 And the Cambridge Associates index.

21 MR. HARTT: Yeah.

22 CHAIRPERSON SLATON: So help me better
23 understand. My intuition is that the shorter the time
24 period you're looking at that, the more difficult it is to
25 measure against that, because the deals tend to be chunky.

1 So, you know, we could have had some exits in a one-year
2 period that others would not have had and vice versa.

3 Are there other issues that we should be looking
4 at, where we should be at all skeptical of using peer
5 index, besides the point I just made?

6 MR. HARTT: So you bring up a good point here
7 with regards to Cambridge Associates. There's a couple of
8 topics I just wanted to address quickly. But just in
9 terms of the construction of the Cambridge Associates
10 index, this is a -- this is a challenging index to -- to
11 outperform, because it doesn't necessarily represent the
12 entire marketplace.

13 So what this represents is what the investments
14 that Cambridge Associates, as an organization, has
15 recommended to their clients. So they're a fine
16 organization. I'm sure they do a great job of just
17 cutting off the bottom quarter -- quartile of managers and
18 opportunities. They do so that.

19 So this is what I would think a pretty tough
20 index, because it's already been pre-selected. It doesn't
21 represent the entire marketplace. Now, of course, the
22 staff should do a good job of winnowing out the bottom
23 quartile as well. But from looking at the total
24 opportunity set, it does have that -- that issues -- those
25 issues there.

1 You're right also that over shorter time periods,
2 different compositions, different assets, different
3 exposure levels in different assets can cause some
4 fluctuation there. So it would be less meaningful to look
5 at that.

6 The other is a relatively minor one, but one just
7 to point out is that the Cambridge Associates, the figures
8 here are IRRs, meaning they're the dollar-weighted returns
9 versus the everything else, the PE program, the policy
10 benchmark, the FTSE are what we call time-weighted
11 returns.

12 So without -- without getting into a lot of the
13 details, the differences in calculation tend to balance
14 out after you're looking at long time periods. So it's --
15 you know, I think all leaning towards looking at the five
16 and 10 years, as opposed to the one and three years.

17 CHAIRPERSON SLATON: Okay. Thank you very much.

18 MR. HARTT: Sure.

19 CHAIRPERSON SLATON: Okay. Anything else on this
20 item?

21 Oh, I'm sorry. I did see it. Mr. Jones.

22 COMMITTEE MEMBER JONES: Yeah. Thank you, Mr.
23 Chair.

24 Yeah, in talking about peer comparisons, what is
25 the status of the Institutional Limited Partners

1 Association template? Because one of the goals there were
2 to bring together common reporting from all of the private
3 equity investors over the country. So what's the status
4 of that data and where is that now?

5 MR. HARTT: Sure. So ILPA, or Institutional
6 Limited Partners Association, CalPERS is a member of that
7 organization. And it seeks to generally advocate for
8 limited partner investors and in their relationship with
9 general partners. And one of the topics that has been a
10 strong area of focus for that organization over the last
11 several years is reporting, and transparency in reporting,
12 and consistency in reporting.

13 So they had advocated an adoption of what they
14 call a template for reporting, so that, you know, the --
15 there's no industry-wide standard and requirement like you
16 have with the SEC and EDGAR for public equity and company
17 reporting.

18 So in order to get the reporting on a consistent
19 basis so that staff and other investors can look at
20 manager performance on a consistent way and have good
21 transparency, they've advocated for that template.

22 So that is being more and more adopted by the
23 general partners. I don't have a statistic on kind of
24 what percentage, but it's definitely being adopted. And
25 from some of our other work, we're seeing that managers

1 are, if not adapting that exact template, that something
2 like that is getting more and more put in place.

3 One of the issues that the general partners would
4 talk about is that, especially for some of their older
5 funds, they didn't record the information in a way that
6 allowed them to report it in that template, so -- or they
7 don't have the tools to be able to do that.

8 So in some cases, some of the managers are doing
9 it on a go-forward basis. So the bottom line is that that
10 template, and that reporting, and increase in transparency
11 is an initiative that continues to roll through the
12 marketplace. And ILPA is a strong advocate of that.

13 COMMITTEE MEMBER JONES: Okay. Thank you.

14 CHAIRPERSON SLATON: Okay. I see no further
15 questions. Do we have PCA on this as well. But I think
16 what we'll do is for the reporter, we're going to take a
17 10 minute break. So we'll reconvene at 11:10.

18 (Off record: 11:00 a.m.)

19 (Thereupon a recess was taken.)

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

21 CHAIRPERSON SLATON: Well, I hate to break up the
22 party --

23 (Laughter.)

24 CHAIRPERSON SLATON: -- but it is 11 after, so...
25 As everybody is getting organized and seated, I

1 want to just take a moment to -- a personal privilege to
2 thank President Jones for his six years of guidance of the
3 Investment Committee at CalPERS. And it was a steady hand
4 on the tiller. And I look up to him, and hopefully I can
5 do maybe a portion of what -- the good work that he did.

6 All right. We'll now move to PCA review. So
7 proceed.

8 MS. FIELDS: Good morning. Christy Fields. And
9 I'm accompanied by my colleague David Glickman. We are
10 your real estate consultants and we're here to talk about
11 the roughly 10 percent of the portfolio that is invested
12 in private real estate.

13 Happy to take some additional time, as necessary
14 perhaps, not here, but whenever is convenient for new
15 Board members to talk about the history of the program,
16 which would resemble bell a tone like -- unlike -- not
17 unlike *War and Peace*, and perhaps also not an
18 inappropriate name for that. Luckily, we're in the peace
19 part at this point.

20 But I wanted to review -- we presented our kind
21 of update in a letter format. And on page three of that
22 is kind of a high level portfolio performance relative to
23 the policy benchmark. This portfolio has undergone a
24 tremendous amount of change in the last 10 years. It's
25 gone from one that experienced quite a bit of pain

1 post-crisis due to the complexity, and the leverage, and a
2 whole host of factors to one that is really now serving
3 its role the portfolio.

4 And for the benefit of the newer Board members,
5 that role is all around diversifying your -- the risk
6 presented in your global equities portfolio, and really
7 being a source of income with which you can pay your
8 Beneficiaries.

9 And so while the table presents -- on page three
10 presents that total portfolio level return - and there is
11 some underperformance relative to the benchmark more
12 notably in recent periods - we would urge you focus on
13 longer term performance in this private asset class. And
14 I'd also like to highlight too that the portfolio is doing
15 what it's supposed to be doing at this point. It's
16 generating close to a four percent income return year-in,
17 year-out.

18 And it is also -- if you were to separate out the
19 core part of your portfolio, which is indeed the focus of
20 this program now comprising almost 90 percent of the
21 portfolio -- 86 percent of the portfolio, that
22 subportfolio is outperforming the benchmark materially
23 over most time periods.

24 So this is a nuanced -- a little bit of a nuanced
25 story, but -- and the work continues. It's not complete

1 yet. Staff continues to manage this portfolio around the
2 edges and continues to trim some of the legacy positions
3 that we've spoken about kind of year-in, year-out mostly
4 around emerging markets, some land holdings, but that the
5 portfolio is continuing to do what it's supposed to do at
6 this point.

7 And maybe there I'll pause. We can take any
8 questions now, or David was going to provide some kind of
9 contextual information about the market in which you're
10 investing and participating.

11 CHAIRPERSON SLATON: We have no questions at this
12 time.

13 MS. FIELDS: Super.

14 MR. GLICKMAN: Thank you, Mr. Chairman. David
15 Glickman, PCA.

16 I'm going to talk for a couple of minutes. Some
17 of the things I'll say will be echoing things that you've
18 heard this morning from other private market arenas.

19 In general, institutional investors are
20 allocating more money towards private assets and less
21 money towards public assets. And real estate is one of
22 the places to which that new increased allocation goes.

23 In addition the performance of real estate has
24 been reasonably good. And so it has attracted capital in
25 and of itself.

1 The amount of dry powder that's available is at
2 historic highs. And it has to be understood for both
3 private equity and for real estate that purchases are
4 made, not only with the capital that's allocated by the
5 investors, but also with third-party debt or leverage.

6 So in the real estate arena, on average, for
7 every dollar of new equity capital that you see as dry
8 powder, there's probably another dollar of debt that's
9 available. And so the scope of what is the demand for
10 real estate is enormous.

11 And while you have certain advantages at CalPERS
12 in the market, particularly scale and structure, there are
13 a lot of people who are also bidding for the same
14 properties that you have. One of the things that that has
15 resulted in is the annual amount of budgeted commitments
16 that you've sought to make to get you to your allocation
17 has not yet been met in any of the last several years.

18 That's disappointing insofar as achieving the
19 asset allocation targets, but it's very encouraging
20 insofar as showing discipline and not chasing returns that
21 are unlikely to be able to be realized, given that there
22 is so much pressure to find properties that the yields are
23 likely to be less than what they have been in years past
24 when there wasn't as much demand for those properties.

25 The amount of appreciation has begun to diminish

1 compared to the years following the rebound from the Great
2 Financial Crisis. That is not to say that properties
3 aren't appreciating - they are - but just not at the same
4 amount of appreciation within the total return that we
5 experienced in 2013, '14, '15 and '16. It's still a very
6 attractive total return when measured against what it is
7 you're trying to accomplish from this roughly 10 percent
8 of your portfolio.

9 Some of the trends that are occurring in the
10 broader commercial real estate markets of which we want
11 you to be aware are, in addition to having lots of capital
12 available, there is a relatively disciplined amount of new
13 product being created.

14 The two things that generally signal a real
15 estate downturn are speculative new development of which
16 there is not very much right now in historical terms, and
17 a trend towards overleveraging where borrowers seek 70,
18 75, 80, 85 percent loan-to-value, which in terms of
19 volatility can increase the volatility materially.

20 While there is new construction, it's basically
21 tenant demand driven. Meaning there's not much spec
22 construction, but rather things are being built because
23 the tenants are identified and looking to take up the
24 space.

25 And similarly, while the debt markets for real

1 estate are evolving with fewer regulations, constraining
2 the existing bank and regulated lenders, and more and more
3 debt funds and non-regulated real estate lenders entering
4 and bidding for new debt facilities, neither one of those
5 conditions is so extreme as to make us change and put the
6 yellow light of caution to something closer to red.

7 There's equilibrium right now in most space
8 markets between the amount of space the landlords are
9 offering and the amount of space that the tenants want to
10 take up.

11 At the margins of those space markets are also
12 things at which we're paying close attention. We call
13 those the disruptors. And you have heard about the
14 disruption in retail because of the Internet. You have
15 heard about the disruption in office space because of
16 co-working. You've heard about the disruption in
17 industrial warehouse distribution, in part because of the
18 Internet, and the focus on having distribution centers and
19 having last mile delivery.

20 All of those things around the margin are
21 changing how tenants use their real estate and the amount
22 of demand that each tenant might have. A law firm, for
23 example, uses much less space per employee today than they
24 did 10 years ago, because of technology advancing. That
25 changes the complexion of what it is to be an office

1 building owner.

2 But, in general, we are relatively comfortable
3 that the space markets are in close to equilibrium and
4 that the capital markets have so much available demand for
5 finished real estate, that values are likely to be able to
6 be maintained.

7 At that point, I will pause and ask if there are
8 any questions about the overall markets.

9 CHAIRPERSON SLATON: Ms. Taylor.

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

11 David, thank you very much. I just -- I had a
12 couple of questions. One was we are -- we underperformed
13 the last quarter. And since we own mostly commercial
14 properties, what was that due to, just as an explanation
15 as the underperformance?

16 MR. GLICKMAN: So in trying to be precise and
17 brief --

18 COMMITTEE MEMBER TAYLOR: That's fine.

19 MR. GLICKMAN: -- a good portion of the
20 underperformance relates to what Christy described as the
21 legacy investments.

22 COMMITTEE MEMBER TAYLOR: Okay.

23 MR. GLICKMAN: Those are things that we would
24 call out of benchmark. And they include things like land
25 and investments in emerging markets, which are not part of

1 the benchmark to which you hold yourself accountable.

2 COMMITTEE MEMBER TAYLOR: The core strategies.

3 MR. GLICKMAN: Correct.

4 COMMITTEE MEMBER TAYLOR: Okay. So it's when we
5 invested way back in the day that we haven't gotten rid of
6 after the 2008 crash, is that correct?

7 MR. GLICKMAN: Yes.

8 COMMITTEE MEMBER TAYLOR: Okay.

9 MR. GLICKMAN: You have weaned most of that
10 legacy portfolio away. And as Christy mentioned, now
11 almost 90 percent of your real estate assets are entirely
12 consistent with the strategy and the role that real estate
13 is playing. However, some of the legacy assets didn't
14 have such a good year and that accounted for part of it.

15 COMMITTEE MEMBER TAYLOR: Okay.

16 MR. GLICKMAN: A second part of the
17 underperformance has to do with the fact that your
18 portfolio is more heavily leveraged than the benchmark is.
19 And in a period of rising interest rates, that's going to
20 marginally affect your appraised values. It did not --
21 your cash performance has been terrific and has beaten the
22 benchmark. But in terms of the total performance, the
23 existence of that extra leverage pushes it down in the
24 years when rates are going up, and it also buoys it in
25 rates -- in years when rates are falling.

1 COMMITTEE MEMBER TAYLOR: That leads me to that
2 second question, which was I didn't think that 32 percent
3 loan-to-val -- loan-to-value was that high. So could you
4 explain that why that's considered high?

5 MR. GLICKMAN: Yeah. PCA would completely agree
6 with you. A 32 percent loan-to-value ratio in practical
7 terms means that you have somewhere around three and a
8 half to four times as much net income to pay your mortgage
9 monthly as you need. And an industry standard is
10 somewhere around 1.25 to 1.5 as an indication of
11 healthiness.

12 The core real estate assets benchmark, the ODCE
13 funds, has an average of about 21 percent leverage. And
14 so while, on the one hand, my goodness, you have 50
15 percent more than the benchmark, you don't have such a
16 level of leverage as to cause anyone concern about losing
17 a property to foreclosure.

18 COMMITTEE MEMBER TAYLOR: What was our strategy?
19 I mean, if -- I don't know if that was the norm when we
20 were purchasing these properties, but what was our
21 strategy doing this leverage level? Does any --

22 MR. GLICKMAN: Part of it was related to the
23 non-core properties --

24 COMMITTEE MEMBER TAYLOR: Okay.

25 MR. GLICKMAN: -- because your 33 percent or 35

1 percent overall leverage also includes the non-core
2 properties leverage. And the legacy properties were
3 leveraged significantly more than what the performing core
4 properties were. So it bleeds over to that and brings it
5 up.

6 Currently, the strategy is to have levels of
7 leverage on the core portfolio that are close to what the
8 levels of leverage are in the benchmark.

9 COMMITTEE MEMBER TAYLOR: Okay. Great. Thank
10 you.

11 CHAIRPERSON SLATON: Okay. No further questions
12 at this time.

13 MR. GLICKMAN: Thank you.

14 CHAIRPERSON SLATON: Okay. All right. Let me
15 get my -- now, it's time for 7b. Yeah, Trust Level Review
16 by staff. Mr. Meng.

17 Do we have -- oh, wait a minute. Do we have
18 infrastructure?

19 CHIEF INVESTMENT OFFICER MENG: Sorry. So Meketa
20 on infrastructure.

21 CHAIRPERSON SLATON: Okay. Well, you and I are
22 eventually going to get to the staff report.

23 Thank you. Welcome.

24 MR. McCOURT: Thank you. Steve McCourt and Lisa
25 Bacon from Meketa. And I'm sure, at this point, you're

1 asking yourselves exactly how many asset class reports are
2 we going to have? This is the final one, and we'll be
3 relatively brief.

4 I did want to make a couple of small introductory
5 comments about infrastructure as a -- an asset category
6 for the benefit of newer trustees. Infrastructure, in the
7 context of institutional investing in the U.S. is a
8 relatively newer asset class or asset category. CalPERS
9 was a fairly early adopter of this asset category.

10 Your returns go back a bit over 10 years at this
11 point. Infrastructure began as an institutional asset
12 class outside of the U.S. in Europe, Canada, and Australia
13 largely by defined benefit pension plans that were looking
14 for assets that more closely matched the duration of their
15 liabilities, but provided higher returns than traditional
16 fixed income assets.

17 As the market has evolved, those types of assets
18 that fall under the infrastructure category include
19 essential services, such as transportation assets, roads,
20 railways, ports, et cetera, and what I would sort of
21 categorize as regulated utilities and associated
22 activities of generating and distributing power in an
23 economy.

24 What ties these types of assets together for the
25 most part are either really, really sticky long-term

1 demand for the service - energy obviously has a very
2 consistent demand profile - or more often actual long-term
3 contracts from counterparties that -- high credit quality
4 counterparties that make the revenue of these businesses
5 highly, highly predictable over long periods of time. And
6 these tend to be very sort of long term buy and hold
7 assets. In many cases, 10 years or longer.

8 So with that brief introduction on the asset
9 class, I'll hand it over to Lisa for a review.

10 MR. BACON: Thank you. Lisa Bacon, Meketa
11 Investment Group.

12 So we also delivered our report in the form of a
13 letter. And I'm going to start at the end, and summarize
14 our conclusion for you, and then make a couple comments
15 about the market.

16 I am always pleased to come up and report to you
17 that your infrastructure portfolio is outperforming its
18 benchmark for the reporting period and for all trailing
19 periods one, three, five, and 10 years.

20 With respect to the net asset value, you are now
21 at \$4.35 billion, which is slightly up from the last
22 reporting period, which was 4.28. I'll also mention that
23 this is approximately 1.3 percent of the total portfolio.
24 And we note that you don't -- you no longer have
25 infrastructure-specific allocation. It is part of the

1 real asset allocation of 13 percent plus or minus. One of
2 the things we do in this -- in this report is look at all
3 the policy parameters for compliance.

4 With respect to those -- with respect to risk,
5 the diversification of core, value-add, and opportunistic,
6 you're roughly within the middle of those classifications.
7 Geography, you are compliant, noting that you recently
8 raised the international allocation maximum from 50
9 percent to 60 percent to give you all a little bit more
10 room, reflecting where the market opportunities are.

11 With respect to segments, that is calculate --
12 that is evaluated at the real asset portfolio level, but
13 we do comment on that, and they look appropriately
14 diversified.

15 With respect to managers maximums, you are very
16 comfortable there as well. Leverage is compliant, and
17 there are no public securities of any meaning to report.

18 Working backwards on page three of our memo,
19 turning your attention to the chart around historical deal
20 flow, we noted that this is the third year of essentially
21 three-year high that is much higher than the prior years,
22 both with respect to the total deal value. And as well,
23 the average size of the deal has been increasing over the
24 last couple of years.

25 What that means interestingly is that the number

1 of deals is decreasing relatively speaking. And so we're
2 getting fewer bigger deals, which certainly matches what
3 we're seeing in -- in our own deal flow.

4 On page four of our memo, we've also got some --
5 some evaluations of the kinds of deals we've seen during
6 the reporting period, according to the Preqin data. The
7 pie chart on the upper part of the page on the left side,
8 lots of secondary deals, which essentially is the same
9 thing as core, the kinds of assets that you all are most
10 interested in, and so that's good for -- for what you all
11 are looking for. Also, a fair amount of greenfield, which
12 reflects activity both in the developed and developing
13 world.

14 With respect to deal flow by region, about 80
15 percent of that is -- is in the developed world, but
16 increasingly -- an increasing amount of deal activity in
17 other geographies as private capital finds its way to
18 markets that have previously been a little bit underserved
19 perhaps.

20 With respect to deal value by sector, these don't
21 change a whole lot quarter -- semiannual over semiannual.
22 I would note that renewables is now the largest sector at
23 21 percent. I would expect that to continue to be very
24 healthy and be at the top of the list.

25 Two categories I would just draw your attention

1 to may be for next time, the social currently is fairly
2 small, but we're seeing a lot more PPP's in particular in
3 the United States. So I would expect that to grow over
4 time and represent new opportunities. And also, the
5 transport sector, which right now is at about 15 percent,
6 I also would expect that one to increase over time.

7 On page five, on the bottom part of the page,
8 back to the conversation about dry powder, I am going to
9 sing you the same song in a different tune, there is an
10 awful lot of it. It's still the highest its ever been,
11 and increasing over the last couple of years. The pie
12 chart shows you where that -- where that capital is
13 looking to invest. Again, the same geographies that you
14 all are looking at, predominantly in the developing world.

15 And then on page six with respect to fundraising,
16 which is what fuels all that dry powder, if you look at
17 the dark bars, those show the fundraising aggregate
18 capital per year. Again, another record-setting year.
19 And as well, the other line shows the average fund size.
20 And so we're getting more capital raised and the average
21 fund size is increasing. I think you're all following
22 some of the managers out there that were quite successful
23 a couple years ago, and are back in the market, and appear
24 at least that they'll be successful again in raising large
25 amounts of capital.

1 With respect to the market outlook, so far, we
2 don't see any signs of the -- of these trends changing
3 direction any time soon. One of the things we are
4 noticing are increasing opportunities in co-investments,
5 and separate accounts, and joint ventures. You know, some
6 of the kinds of vehicles that your Real Asset Program
7 staff and the folks that are focusing on infrastructure
8 are accessing to your benefit.

9 And we continue to see you all developing and
10 keeping strong relationships with managers and exercising
11 your brand in the marketplace.

12 I'd be happy to take any questions.

13 CHAIRPERSON SLATON: Okay. Ms. Taylor.

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

15 Thank you very much for the presentation. I had
16 a couple of questions. First, you said social, and I saw
17 that here and I had it circled earlier. What is that?

18 MS. BACON: So schools, hospitals --

19 COMMITTEE MEMBER TAYLOR: Okay.

20 MS. BACON: -- civic buildings, police buildings.

21 COMMITTEE MEMBER TAYLOR: So -- and those are
22 usually done through governmental entities. So we're --
23 and you're seeing this expand is what you said earlier.

24 MS. BACON: Yes. I mean not at a -- not at
25 lightning speed, but there are more of -- more of those

1 investment opportunities in that category today than there
2 were a couple years ago. And then we're also seeing
3 municipalities, and counties, and states putting together
4 those kind of programs now, that will come out for bid and
5 be opportunities in the forward years.

6 COMMITTEE MEMBER TAYLOR: Are those like
7 private-public partnerships --

8 MS. BACON: Yes, exactly.

9 COMMITTEE MEMBER TAYLOR: -- type of thing?

10 Okay. Good. That's good to hear.

11 And then renewables, I am glad to see, are
12 expanding and are high -- are the highest. Which then I
13 wanted to give our folks kudos for outlining here and for
14 you guys outlining here our investments in California. So
15 thank you very much.

16 But I also wanted to talk about our renewables
17 projects. It looks like we've got multiple solar
18 projects. I'm not sure how our folks feel about the --
19 how difficult it is to invest in those renewables, that 21
20 percent. And are we accessing those deals to the best of
21 our ability? And maybe that's a Ben question. I don't
22 know.

23 MS. BACON: I can give a short answer --

24 COMMITTEE MEMBER TAYLOR: Sure.

25 MS. BACON: -- from our perspective.

1 It appears that you all have a tremendous amount
2 of visibility on deal flow in this space in terms of
3 seeing what the opportunities are. For core renewable
4 opportunities, those are extremely competitive. You all
5 have been successful in some of those and you've been
6 unsuccessful in some of those. And some of the reasons
7 there is that there are a large number of investors
8 willing to pay more than you are. And so your -- your
9 real est --

10 COMMITTEE MEMBER TAYLOR: We're cheap.

11 MS. BACON: -- real assets team --

12 COMMITTEE MEMBER TAYLOR: Oh, I'm sorry.

13 MS. BACON: -- has been very disciplined in that
14 regard, and as well the managers. One of the ways that
15 they can access deals is bilateral negotiations and using
16 their particular brand. Another thing is to enter into
17 sort of joint ventures and looking at forward
18 opportunities. One of the things I believe that we
19 mentioned in our report last time as something for the
20 future is to essentially look more at development
21 opportunities and construction opportunities where you
22 would take a little bit more risk on the front end, but
23 then you wouldn't have to buy the core asset, you would
24 already own it.

25 COMMITTEE MEMBER TAYLOR: All right. And Paul is

1 up here, so maybe...

2 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Hi.

3 Sorry. Paul Mouchakkaa with CalPERS staff.

4 We have a dedicated separate account that looks
5 at renewables. So that is with a manager --

6 COMMITTEE MEMBER TAYLOR: That's awesome.

7 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: -- that
8 we've had now for about four years. And so we are -- we
9 have -- we have something set up that really targets that.
10 Our tax-exempt status --

11 COMMITTEE MEMBER TAYLOR: Oh, that's right.

12 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA:

13 -- actually works against us in this space --

14 COMMITTEE MEMBER TAYLOR: I forgot about that.

15 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Given a
16 lot of the tax credits that go -- have -- go into the
17 development and in the operation of many renewable power
18 assets, it actually boxes us out in some ways, because
19 others can pursue them at a higher price because they
20 benefit from the tax credits, whereas we don't.

21 So that's a big influencer in what -- in what is
22 going on. However, we have -- I don't remember a month,
23 to be honest, over the last three years where we haven't
24 been at least in the pursuit of a renewable deal. And I
25 want to be clear, we only would do them if they meet our

1 return expectations.

2 COMMITTEE MEMBER TAYLOR: Sure.

3 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: So it's
4 only for those reasons and those reasons only that we
5 would do them.

6 COMMITTEE MEMBER TAYLOR: So just a quick
7 question. The tax exempt -- I mean, there's a ton of us
8 institutional investors that are tax exempt. So we all
9 have this difficult time. And I know on the real estate
10 side to combat that, we created the separate entity.

11 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Um-hmm.

12 COMMITTEE MEMBER TAYLOR: Is that something we're
13 thinking about for our infrastructure?

14 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: While
15 we have a separate account for the renewables piece, it's
16 many of the fund managers face -- they can benefit from
17 the tax credits in their returns. But there's a fair
18 amount of foreign investors that have come into the United
19 States --

20 COMMITTEE MEMBER TAYLOR: Okay.

21 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: -- and
22 they do face potential tax issues when they come. And so
23 again, they bear -- they get that benefit, whereas we --
24 we do not.

25 COMMITTEE MEMBER TAYLOR: Got it. All right.

1 Thank you very much.

2 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Thank
3 you.

4 CHAIRPERSON SLATON: Controller Yee.

5 COMMITTEE MEMBER YEE: Thank you, Mr. Chairman,
6 and thank you for the report. I wanted to ask -- and I
7 probably should have asked this when we were talking about
8 real estate. But with respect to the focus on major
9 climate events that are before us, and, you know, kind of
10 a focus on developing ESG tools for measuring climate
11 risk, is that a concern at this point with the
12 infrastructure class and what steps are being taken in
13 that arena?

14 MS. BACON: I will let Paul talk about his ESG
15 program, which is one of the most robust --

16 COMMITTEE MEMBER YEE: Robust, yeah.

17 MS. BACON: -- that I've seen out there. With
18 respect to climate change in particular, a number of
19 managers that you're already invested with, some of the
20 assets that you own and some of the things that you will
21 have an opportunity to go after are either climate change
22 neutral, climate change positive, or focus on that in
23 someway.

24 Already, over the last couple years, as there's
25 been more attention paid to the space and more

1 climate-specific projects underway, there are commingled
2 funds. There are managers that are specifically branding
3 what they're doing as climate-change related and just not
4 climate-change friendly. And so those kind of things
5 would be flood control projects. They'd be
6 reinforcements. They'd be stormwater management.

7 COMMITTEE MEMBER YEE: Right.

8 MS. BACON: And so I think there's going to be a
9 number of kinds of investments coming to the fore that
10 would be available for private capital that really haven't
11 been in the private space to date.

12 COMMITTEE MEMBER YEE: Yeah, that's great. And I
13 know -- I mean, we -- I'm proud to tell the
14 accomplishments with our real estate assets with respect
15 to climate change, and the tools that have been developed
16 there. But it seems to me, particularly with some of the
17 larger infrastructure focus, particularly on ports and sea
18 level rise, where you have obviously a global interest,
19 certainly have an interest here in California, and with
20 municipalities that will be affected, that there's going
21 to be a lot of attention focused on it, and I think a lot
22 of opportunity as well.

23 MS. BACON: I think your portfolio and your team
24 are well positioned --

25 COMMITTEE MEMBER YEE: Yes.

1 MS. BACON: -- and are probably going to be
2 spending a lot more time on that as the years move
3 forward.

4 COMMITTEE MEMBER YEE: Great. Thank you.

5 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: All I
6 would add to that is we're a member of the GRESB,
7 G-R-E-S-B, benchmarking tool. Actually, Beth was one of
8 our founding members when she used to be in the real
9 assets group. That area provides some very good
10 benchmarking information, but it is still very early in
11 its stages, when you compare it to the real estate
12 markets, which has a lot more bigger, and more robust, and
13 deeper data.

14 But it is an area where we are exploring. I'll
15 let maybe Beth talk a little bit about the climate change
16 or the G7 initiatives that may be going on.

17 MANAGING INVESTMENT DIRECTOR RICHTMAN: Hello.
18 Beth Richtman, CalPERS staff.

19 So I guess what I'll mention is that we have
20 been -- the Sustainable Investments Program has been
21 working with the Real Assets Program over the past year on
22 piloting some physical risk tools to look at our assets,
23 to sort of survey the portfolio, and understand the type
24 of physical risks that will affect us as a long-term owner
25 in these particular assets.

1 That said, the available tools right now in the
2 market are still developing. And so we've been piloting
3 some of them and working on finding where are the most
4 appropriate tools to help us as an investor. You may have
5 also seen the news about us forging a -- sort of a --
6 we're going to be piloting some tools coming out of
7 relationship between Woods Hole Research Center, which is
8 one of the premier climate change research centers, and
9 also Wellington Management, because again we're trying to
10 find what are the best possible tools we could be using to
11 understand these issues for the fund.

12 But it's complicated given, you know, there's --
13 there's definitely a lot of well-developed science, but
14 there's also a lot of possibilities for what could happen
15 with any particular asset, and with -- depending on what
16 happens related to, you know, policy and mitigation that
17 might happen, either policy driven, or investor driven, or
18 adaptations that different cities or governments might
19 impose on a particular area.

20 So there's a lot to think about with this one,
21 but we're definitely working closely with real assets on
22 it.

23 COMMITTEE MEMBER YEE: Thank you very much.

24 CHAIRPERSON SLATON: I'm sorry.

25 COMMITTEE MEMBER YEE: Before we conclude on this

1 item, it just kind of struck me as we're talking about
2 each of these different asset classes that if there's an
3 opportunity to actually have the staff bring forward,
4 maybe from a total fund, total portfolio perspective just
5 what the role and purpose is of each asset class just so
6 we kind of have it all in front of us, rather than asset
7 class by asset class.

8 I remember kind of onboarding over four years
9 ago. And that was -- kind of been my whole orientation is
10 kind of looking at it from the total fund, total portfolio
11 perspective. I think that would be helpful, so whether a
12 particular asset class is -- purpose is to generate income
13 or to mitigate risk, whatever the purpose is. That's just
14 a request

15 CHAIRPERSON SLATON: Is that something we can get
16 distributed to the Board.

17 CHIEF INVESTMENT OFFICER MENG: Yes.

18 CHAIRPERSON SLATON: Okay. Very good. So
19 directed.

20 Mr. Jones.

21 COMMITTEE MEMBER JONES: Thank you, Mr. Chair.

22 Yeah. I had the same reaction as Mrs. Taylor
23 when I looked at this social category, because my first
24 reaction is I don't recall CalPERS investing in social
25 impact investing. And so, you know, PPP I totally

1 understand. And just wondering if that -- how -- perhaps
2 that needs to change, because just like she perceived it
3 to be social impact investing, I did, and I'm sure others
4 may eventually. So that maybe needs to be clarified.

5 MS. BACON: Are you looking for an elaboration
6 now or just more information moving forward?

7 COMMITTEE MEMBER JONES: Changes moving forward.

8 MS. BACON: Okay.

9 CHAIRPERSON SLATON: Is that it?

10 Okay. Did you want anything now or are you
11 saying --

12 COMMITTEE MEMBER JONES: No. I mean, if you have
13 a quick answer. I don't want to go into a long dialogue.

14 CHAIRPERSON SLATON: Yeah, maybe you have the
15 Reader's Digest version for us.

16 CHIEF INVESTMENT OFFICER MENG: Yeah. If I
17 may -- if I understood your questions correctly, the use
18 of the term "social" caused confusion here. But that's
19 the standard industry language in the infrastructure
20 arena. When investor talk about the different type of
21 infrastructure investment and projects, projects such as
22 hospital, prison, school, these are all considered as a
23 social investment. Very different from what we normally
24 mean by the social impact or sustain -- sustainable
25 investing.

1 But my point is that that is the -- they use
2 social to call that type of infrastructure project is an
3 industry standard.

4 CHAIRPERSON SLATON: Okay.

5 CHIEF INVESTMENT OFFICER MENG: But that being
6 said, we'll be happy to change it if you still would like
7 to change it.

8 COMMITTEE MEMBER JONES: Yeah. I mean, it's
9 confusing. And so that's -- I was just seeking
10 clarification, but --

11 CHAIRPERSON SLATON: Okay. I think we're all on
12 the same page as to what it means now, so good.

13 So I had just a couple of very quick questions.
14 One is on the -- this is on the different types of
15 transactions, particularly the renewables side and the
16 challenge that presents, particularly in the solar area
17 the tax credit, the 30 percent is going to start getting
18 reduced for commercial and residential at the end of this
19 year.

20 It's dropping to 26 and then to 20 I believe --
21 or 22, and then finally to a ten percent floor, unless
22 Congress changes it. Do you see that impacting in any
23 particular way, or do you think other players will just
24 ignore the issue with the declining tax credit.

25 MS. BACON: I think it's going to change the

1 composition of the players and maybe the proportionate at
2 which they invest. But at the same time, the costs are
3 coming down, the demand is going up, and so I think we
4 would -- we're going to continue to see opportunities and
5 folks finding a way to make them economical.

6 CHAIRPERSON SLATON: Right. But it -- but it
7 should -- it should give us a little more advantage in it,
8 as the impact of the tax credit gets reduced, I would
9 think.

10 MS. BACON: All else being equal, yes.

11 CHAIRPERSON SLATON: Yeah. Well, it's never --
12 all things are never equal.

13 (Laughter.)

14 CHAIRPERSON SLATON: But the other question was
15 on water. And you -- it's a very tiny portion. And I
16 know you talked about -- you mentioned stormwater. But
17 water systems. Is the challenge there the size of the
18 systems for a player like CalPERS or what -- or do you see
19 that as a growth area or not?

20 MS. BACON: At least in the United States, the
21 water is distinct from wastewater, is either in large --
22 larger public companies in terms of being held, it is
23 owned and operated by large municipalities, New York City,
24 Los Angeles, or it is very small and fragmented.

25 CHAIRPERSON SLATON: Like Sacramento?

1 (Laughter.)

2 MS. BACON: I would put Sacramento in a medium
3 kind of thing, especially since Sacramento Regional was a
4 client of mine at one point.

5 CHAIRPERSON SLATON: Okay.

6 MS. BACON: So there are a couple strategies in
7 the space. One essentially is an aggregation roll-up
8 strategy, which takes -- you know, you're writing five
9 million, ten million dollar checks a pop. And there
10 are -- there are managers who are out there doing that.

11 There are privatizations of the style that you've
12 seen in Europe, and especially in Britain. I don't think
13 you're going to see that in the United States at that
14 level any time soon. And so I think in that space, the
15 forward opportunities are going to look like
16 public-private partnerships for expanded facilities, for
17 rehabilitation, and especially in areas where -- where the
18 infrastructure has been underbuilt, or where there have
19 been problems and consent decrees are in place that
20 essentially are mandating what needs to happen.

21 So I would expect that two percent to inch up a
22 little bit, but it is a challenging space. It's also one
23 where there are a lot of creative opportunities to play
24 where others aren't, and maybe something that you all
25 might want to look at. I know you're looking at it some,

1 but I would expect there might be something unique for you
2 all --

3 CHAIRPERSON SLATON: Okay.

4 MS. BACON: -- especially given the wider range
5 of issues in California.

6 CHAIRPERSON SLATON: Okay. Mr. Jones.

7 COMMITTEE MEMBER JONES: Yeah. Thank you, Mr.
8 Chair.

9 One additional comment. I just want to applaud
10 staff for -- and I know it was mentioned earlier that
11 sometimes actions are taken several years ago, and it may
12 be a different staff, but to embark upon this
13 infrastructure investing, because it has done very well
14 for us. And I think that it may be helpful to have one of
15 our partners come in and share with the Board their
16 strategy on how we go about it.

17 And one that come to mind is the Port of
18 Melbourne. There were a number of trustee -- pension
19 funds over the country that was interested in investing in
20 the port. And because CalPERS was a leader in that
21 investment, they wanted CalPERS to be there. So I had the
22 opportunity to go with those trustees to Melbourne to look
23 at that, and found out that there were considering buying
24 more of that port. So it may be helpful to have some kind
25 of presentation with some of those structures with the

1 Board

2 CHIEF INVESTMENT OFFICER MENG: Yes. So we
3 definitely can ask one or two of our info partners to come
4 here to present to this body. Would you want it sooner,
5 or you would like -- you're thinking about the July
6 off-site.

7 COMMITTEE MEMBER JONES: Yeah. Whenever is
8 convenient. I'm not -- whenever is convenient.

9 CHAIRPERSON SLATON: Let's let staff --

10 COMMITTEE MEMBER JONES: You determine that.

11 CHAIRPERSON SLATON: Staff can schedule it.

12 CHIEF INVESTMENT OFFICER MENG: Okay.

13 COMMITTEE MEMBER JONES: And, by the way, some of
14 those models are similar to this private equity model
15 we're talking about, so that would be informed in that
16 area also.

17 CHIEF INVESTMENT OFFICER MENG: Yes. Thank you.

18 CHAIRPERSON SLATON: Good. All right. I see no
19 further questions. So thank you very much for the report.

20 And I think that concludes all the consultant
21 reports.

22 CHIEF INVESTMENT OFFICER MENG: I hope so.

23 (Laughter.)

24 CHAIRPERSON SLATON: So, Mr. Meng, the floor is
25 yours, sir.

1 past year, you can see that in 2018 the economy did expand
2 at a greater rate than it had in the first eight and a
3 half years of the expansion. A lot of that happened in
4 consumer space. The consumer outlook for this year is
5 much more volatile.

6 In particular, the big question the market is
7 asking right now is did folks get their tax cut last year
8 when -- when withholding was changed by employers, seemed
9 to do a pretty good job, or is some going to come this
10 year in terms of a larger tax refund.

11 So far, it's looking as though most folks got
12 their tax cut in 2018. And 2019 has generally been a year
13 so far for disappointment in terms of refunds.

14 Secondly is that we did have a higher than
15 expected improvement in CapEx in 2018 relative to the
16 expansion average. But that's very vulnerable to a
17 downturn in the global cycle that we're experiencing right
18 now.

19 Thirdly, in that, housing underperformed its
20 typical expansion average for the year. I don't think
21 that's a big deal for the longevity of the business cycle,
22 but we are getting into a phase of the business cycle
23 where some of the government activity is so-called
24 crowding out private sector, including in the housing
25 space.

1 getting pretty high, relative to past cycle peaks.

2 And then you have this continuing problem where
3 the female participation rate is improved rapidly during
4 particularly the last couple of years of the recovery, but
5 male participation, particularly in the 25 to 34 year old
6 space, has not improved. So that goes to continue the
7 issues like imprisonment, opioid addiction, things like
8 that.

9 Productivity is another area where it looks as
10 thought there might be some improvement in productivity
11 having occurred in the first three quarters of last year.
12 Productivity essentially says if you do have limits on
13 labor force growth, can you get economic growth through
14 CapEx and productivity.

15 The jury I think is still out on that. Some
16 folks say that we've had five years of improvement in
17 CapEx. Could that lead to higher productivity in the
18 future? But I think the last couple of quarters of
19 this -- fourth quarter, and then first quarter, we're
20 actually going to see a drop back in productivity. So the
21 jury is still out on both labor force participation and
22 productivity.

23 And third is Fed flexibility. We continue to
24 think of the last economic cycle, where there was a lot of
25 leverage growth going on. Folks taking out home equity

1 I've mentioned before the labor market
2 constraints. We have very little labor left in the tank
3 to be able to draw on.

4 --o0o--

5 INVESTMENT DIRECTOR ROTHFIELD: Trade wars on
6 page 13. Even though the U.S. has a smaller exposure to
7 global trade than some other countries directly through
8 its exports, U.S. corporates due 30 to 40 percent of their
9 business abroad. And therefore, as you can see, that
10 global trade has turned over partly because of tariff --
11 tariff and trade wars. That has started to impact some
12 indicators in the U.S. economy.

13 --o0o--

14 INVESTMENT DIRECTOR ROTHFIELD: And then finally,
15 you know -- well, one additional element is China slow
16 down. China is incrementally adding to its toolkit in
17 order to be able to lift up that economy. The official
18 numbers say China is still growing six plus percent.
19 The -- some of the unofficial data is saying, yes, things
20 in the steel sector are still growing strongly, but some
21 other elements of the economy are probably still growing
22 at three percent.

23 And then the question is what tools does China
24 have available to deploy quickly on both the budget side
25 and the credit side to get the economy going again?

1 A little -- one worrisome effect is that in
2 2014-2015, it took two years for China to be able to turn
3 the economy back into a significant growth mode.

4 --o0o--

5 INVESTMENT DIRECTOR ROTHFIELD: Another problem
6 on page 15 is that although the Congressional Budget
7 Office recently downgraded the growth of the U.S. budget
8 deficit over the next few years, we still have significant
9 growth coming up in that deficit, and that can crowd out
10 private sector activity. We do on March 1 also have an
11 expiry of the debt ceiling suspension in the U.S, which
12 could lead to more issues in Washington.

13 --o0o--

14 INVESTMENT DIRECTOR ROTHFIELD: And then finally,
15 on page 16, you can see that central banks have moved from
16 adding liquidity to the system to withdrawing liquidity
17 from the system. Japan is doing much less quantitative
18 easing than it did before. The European Central Bank has
19 stopped buying bonds and adding liquidity that way. And
20 the Fed, as Andrew mentioned, is running down its balance
21 sheet.

22 So, in conclusion, I would say that -- you know,
23 I would say that the stock market is probably saying this
24 slow point in the economy in the winter is going to give
25 way to improved growth in the spring and summer. And

1 that's going to be good for markets and earnings.

2 The bond market right now is saying probably not.
3 We need to see the results and we need to see better
4 economic data. But it is true that the economy has slowed
5 down, and it is true that we still have these challenges
6 out there, including headline risk.

7 So again, my overall message is the macro is
8 showing a fairly cautious view right now.

9 CHAIRPERSON SLATON: Okay. We don't -- no one
10 has questions.

11 Oh, wait a minute. Treasurer Ma.

12 COMMITTEE MEMBER MA: Can we go back to slide 16,
13 what is that blue and yellow graph? Why is that yellow a
14 different color?

15 INVESTMENT DIRECTOR ROTHFIELD: You know what, it
16 looks like the -- it looks like the -- the labels have
17 fallen off that chart when it was produced. But what
18 that's showing is the size of the balance sheet in each
19 country held by the Central Bank. And I apologize for the
20 fact that we don't have the labels probably on that.

21 Yellow is the size of the Fed's balance sheet, as
22 a proportion of the economy. Other countries, such as
23 Switzerland and Japan, which are the two bars on the
24 right, are the size of their holdings of bonds as a
25 proportion of their gross product.

1 So I will send around a revised version of that
2 chart that has the proper labeling.

3 COMMITTEE MEMBER MA: Okay. And then your last
4 response, what was the risk you said? The economy has
5 slowed down and --

6 INVESTMENT DIRECTOR ROTHFIELD: Well, yeah, part
7 of the problem is that even though the economy -- the
8 global and the U.S. Economy had a fairly slow expansion
9 recovery since the Great Recession in 2008, 2009, the
10 Central Banks kept the expansion going by adding liquidity
11 to the system. The Fed was buying bonds, the European
12 Central Bank and the Bank of Japan are all buying bonds,
13 and other Central Banks like Switzerland and the UK as
14 well, Bank of England.

15 We're now at a point where the Central Banks have
16 judged that the economies can do better without support
17 from the Central Banks, so they're actually withdrawing
18 liquidity from the system. And one reason we got to a
19 better place in global growth was that the quantitative
20 easing was supporting asset prices, whether house prices
21 or financial asset prices. And now the markets have to do
22 that on their own based on the economic outlook, rather
23 than relying on Central Banks to support them through
24 liquidity addition.

25 CHAIRPERSON SLATON: Okay. Treasurer Ma, is

1 that --

2 COMMITTEE MEMBER MA: No, that's it.

3 CHAIRPERSON SLATON: Okay.

4 CHIEF INVESTMENT OFFICER MENG: Thank you, John.

5 So in the past couple months -- in the past
6 couple months, I watched a lot of videos of the Investment
7 Committee meeting. And I think I'm going to conduct the
8 CIO report slightly different from what was done in the
9 past.

10 So I would like to always highlight three topics
11 in my CIO report. One is our performance, particularly in
12 relation to seven percent required rate of return. Then
13 the second topic we'll briefly talk about the funded
14 status. And then the third topic is the current
15 positioning of our portfolio, risk position of our
16 portfolio, and our plan to generate the seven percent
17 required rate of return.

18 So with that, I would like to -- again, we are
19 not going to go over every slide. We'll select a few
20 slides.

21 --o0o--

22 CHIEF INVESTMENT OFFICER MENG: So -- Okay. Give
23 me a second. Sorry. It's a wrong deck or the same deck.
24 Just toward the end of it. It's a different deck, so if
25 it's a different deck, can you please bring up the -- it

1 is 7b, it's just 7b, attachment 2.

2 Great. Thank you.

3 So slide 3. So first question, our return,
4 particularly in relation to the seven percent required
5 rate of return. So as you can see, the very top line of
6 this table we did not achieve the seven percent return in
7 that -- in the past one, three, and five years. But we
8 did achieve it in the past 10 years, which is 7.9 percent.

9 And if you recall from my presentation last month
10 at the off-site, I mentioned that we did not achieve the
11 seven percent return in the past 10 years. And the reason
12 was the -- the reason for the difference in the numbers,
13 when I reported last month, that was as of June 30th,
14 2018, and this is as of December 31st, 2018.

15 And if you think about it's a 10-year rolling
16 period. So we experienced very bad drawdown in the second
17 half of the 2008, so that was 23 percent of a drawdown in
18 our portfolio.

19 So once that 23 percent of drawdown in our
20 portfolio, drawn out of the measuring period. You see
21 that our return -- 10-year return increased from 5. -- I
22 want to say 5.6 percent to 7.9 percent. So the highlights
23 of this page, except for one, the importance of the
24 measurement period. Depending on which period you're
25 looking at, it can be above or below. And more

1 importantly, its importance of drawdown protection that
2 some of you, such as Ms. Taylor, this morning asked a
3 question already, which I will speak to later in this
4 presentation. What we are doing in terms of protecting
5 ourself from another big drawdown.

6 So now, if I may, turn your attention to slide 5.

7 --o0o--

8 CHIEF INVESTMENT OFFICER MENG: So this shows
9 absolute return of our fund for two time periods, the
10 one-year period, which is the solid bar, and then the
11 10-year period either the green or the shaded bar.

12 As you can see that on the -- on solid bar, most
13 of the asset delivered negative return -- public asset
14 delivered negative return in 2008. And this really
15 tell -- is consistent from -- consistent with what you
16 just heard from your consultants and our staff, that in
17 2018 the risk environment changed.

18 So investors start repricing risk. And as a
19 result, the most sensitive asset class, which is public
20 equity, experienced a loss close to nine percent. And so
21 it's other public assets, such as income and inflation.

22 However, if you look at the 10-year period, all
23 asset classes have a -- have a positive return. So that's
24 highlighting importance of us focusing on the long term.
25 But a key message on this slide is that the market

1 the policy benchmark is the one that you adopted last
2 November -- last November as the asset liability exercise
3 workshop -- asset liability management workshop.

4 The policy benchmark is a theoretical benchmark,
5 or is a theoretical portfolio, not the actual portfolio.
6 So the excess return is the perform -- is the difference
7 between performance of our actual portfolio and then the
8 policy portfolio.

9 And, of course, the staff aspires to deliver
10 positive excess return. That's really the staff's job to
11 outperform the policy benchmark. But you see in this
12 number here, that's -- I won't say chronically we
13 underperform the policy benchmark. And this is -- as I
14 mentioned at last month's, this is the primary focus of my
15 first 180 days to really assess our investment capability
16 and to conduct a gap analysis, what we are good at, what
17 we are not good at, and what we should be good at, and how
18 to get there.

19 So we plan to report back to you in July
20 off-site. But until then, I would like to highlight one
21 data point to you. If you look at the very last line, the
22 private asset proxying. And if you look at the five-year
23 excess return is a negative 13 bps. So that's more than
24 half of the underperformance of the total fund was causing
25 by private asset proxying.

1 And what is that? The proxying is really
2 estimate, or approximate, the impact of our inability to
3 achieve the full exposure to private asset classes, such
4 as private equity, and when we cannot achieve the full
5 exposure -- fully desired exposure, when that asset class
6 is the best performing asset class. So naturally you
7 underperform simply because you cannot get to what you
8 need.

9 So this again highlights that in the private
10 equity -- private asset class is part of the private --
11 private equity, and is the best performing asset class.
12 And the other important point of this observation is that
13 private equity -- just a moment ago, your consultant and
14 the staff, both of them, discussed about the challenges of
15 funding right benchmark for private asset classes.

16 There's no perfect benchmark for private equity.
17 And we have an asset class a benchmark is not investable.
18 For example, our private equity benchmark is public equity
19 plus 150. But you cannot go out there to buy public
20 equity plus 150. No one can guarantee that, right?

21 So it has a benchmark not investable. But does
22 it make sense to have a fixed allocation target?
23 Currently, our allocation target to private equity is
24 eight percent. And we -- for public markets, for example,
25 for public equity, the target is 50 percent. And if I

1 want to get to 50 percent, it's easier to get it done in
2 the market. Just take some time given our size. It can
3 take maybe a couple of weeks or maybe up to a couple
4 months.

5 But in private equity, since it's not investable,
6 you cannot buy the exposure. So that way are really
7 creating a dilemma for ourself. You cannot buy the
8 exposure, but you have a fixed target, eight percent. And
9 when you cannot get to eight percent, you're at seven
10 percent, you're chronically underweight the best
11 performing asset class by one percent. And, of course,
12 that can hurt our performance.

13 So these are just the topic -- one of the topics
14 I make a list of it, and then come back to you to discuss
15 with you at the July off-site. All the -- you know, the
16 things that I see that suboptimal.

17 So that -- we talk about the first topic in my
18 CIO report is the past performance relative to the seven
19 percent required rate of return.

20 And the second topic I would like to discuss just
21 very briefly is our funded status.

22 So the funded status you saw the 71 -- 71 percent
23 funded status was really based on again June 30th, 2018.
24 And as Ms. Hollinger mentioned this morning that if we use
25 December 31st number, our funded status would be about 65

1 to 66 percent. And if you use it -- again, use the
2 January number, if your factor in the January -- the month
3 of January return, our funded status will be about 68
4 percent.

5 I know we run our portfolio with a long-term
6 focus, but periodically remind ourselves that we're still in
7 the underfunded status, and below 70 percent. I think
8 that help all of us to focus our energy and effort on the
9 most important task, most important mission that we all
10 have, which is to increase the funded status, and to
11 secure the health and retirement benefit of all the
12 members. So that's the second topic.

13 --o0o--

14 CHIEF INVESTMENT OFFICER MENG: Then the third
15 topic is really the risks. Currently, how -- how is our
16 portfolio positioned in terms of risk taking and what is
17 our plan to generate the seven percent return?

18 So as the consultant mentioned already that the
19 dominant risk in our portfolio is growth risk. So our --
20 the performance of our portfolio is very closely tied with
21 equity markets. And with that, then it comes with the
22 vulnerability. We are very vulnerable to drawdown -- very
23 large drawdown.

24 And given -- again, given our underfunded status,
25 and also given the outlook of the global economy, we have

1 to take equity risk to generate the seven percent return
2 in the long run. However, that being said, there are
3 things we can do, and we are doing already to mitigate the
4 drawdown -- the impact of a large equity market drawdown.

5 For example, we -- I see that we have started
6 positioning our portfolio to be a little bit more
7 defensive, and also our portfolio is largely diversified
8 across issuers, sectors, and the geographies. The
9 leverage level of the total fund is modest, and we have
10 adequate liquidity coverage.

11 And more importantly, compared to 2008 and 2009,
12 global financial crisis, we're in a much better liquidity
13 position. Again, thank you all to actions that you took
14 in the recent pass to improve the liquidity profile of the
15 fund. And also, we're managing our liquidity profile in a
16 much more proactive way than -- than which we did in 2008
17 and 2009 period.

18 So again, as I said, that my first 180-day plan.
19 So review our liquidity profile and to develop a
20 comprehensive proactive liquidity management tool is at
21 the front and center of my focus area.

22 --o0o--

23 CHIEF INVESTMENT OFFICER MENG: So the last slide
24 on risk is slide 14, draw your attention to. So this is
25 to put the drawdown into perspective. The drawdown we

1 experienced last quarter 2018 relative to other drawdowns
2 experienced in the recent history was small.

3 And again, as I said, that, you know, given our
4 underfunded status, we have to take risk to generate the
5 seven percent -- seven percent of the return. And taking
6 that risk also comes with a willingness of sticking to our
7 course, even during the times of inevitable market
8 volatilities. And so that what I meant last month at
9 off-site what I meant by keep calm, carry on. If we are
10 on the right course, the markets will be volatile at
11 times. We need to stick to our course.

12 And the other thing, in addition to having more
13 defensive positioning, also to have a proactive managed
14 liquidity framework can also help us to prepare ourself to
15 take advantage of market drawdowns when these
16 opportunities comes about.

17 So in my view, then people will say why don't we
18 just keep in a lot of liquidity in the portfolio and
19 waiting for the market drawdown, and then they can take
20 advantage of this market dislocations. And so my view is
21 really too much liquidity, because liquidity earns a very
22 low return, two percent. We need seven percent.

23 So too much liquidity is costly. However, too
24 little liquidity is deadly. We need money to pay member's
25 benefit. So what is right balance between costly and

1 deadly? And that's the project -- one of the top projects
2 that the Investment Office and I are working on. What's
3 the optimal way to determine a single -- at any point of
4 time, what's the optimal amount of liquidity that we
5 should have, and what other solutions and alternatives we
6 should have in the toolbox?

7 So with that, I think that conclude my prepared
8 remark on the total fund review, and we are ready for any
9 questions.

10 CHAIRPERSON SLATON: Mr. Perez.

11 COMMITTEE MEMBER PEREZ: Thank you. So the 71
12 percent rate is of June --

13 CHIEF INVESTMENT OFFICER MENG: June 30th, 2018,
14 last year.

15 COMMITTEE MEMBER PEREZ: And what is it today?

16 CHIEF INVESTMENT OFFICER MENG: So today, as of
17 January 31st, if we factor in the positive return for --
18 more than four percent return in the portfolio, today's --
19 of January 31st, the funded status should be around 68
20 percent.

21 COMMITTEE MEMBER PEREZ: If we factor -- we don't
22 know the answer.

23 CHIEF INVESTMENT OFFICER MENG: Because --
24 because the second half of last year, particularly Q4 last
25 year, we experienced a large negative return. So from

1 June 30th, which is 71 percent, to January 31st, which is
2 68 percent. So again, this is not an official number,
3 just rough, back-of-envelope estimation.

4 CHIEF EXECUTIVE OFFICER FROST: Yeah, I was
5 going -- I was going to say these are not official
6 numbers. But the assets under management -- I had as a
7 part of my CEO report, the assets under management are 351
8 billion, versus at the end of December, it was right
9 around 338, I believe.

10 CHIEF INVESTMENT OFFICER MENG: That sounds about
11 right.

12 COMMITTEE MEMBER PEREZ: So what's the -- what's
13 the official number? Do we have one?

14 CHIEF EXECUTIVE OFFICER FROST: We'll have to get
15 that back to you.

16 COMMITTEE MEMBER PEREZ: Thank you.

17 CHIEF INVESTMENT OFFICER MENG: So, again, as I
18 said, that you know we manage the portfolio with a
19 long-term focus, but I think, you know, periodically
20 remind ourself that we are still underfunded, and lower
21 than 70 percent. So that should remind all of us to focus
22 or energy and attention effort on the most important task
23 we all have, which is to improve the funded status.

24 But again, as I said in opening, I'm doing the
25 CIO report slightly differently. If that's not something

1 you want to hear from me in the future, I'm more than
2 happy to cut that out.

3 (Laughter.)

4 CHAIRPERSON SLATON: Okay. Mr. Perez?

5 COMMITTEE MEMBER PEREZ: Thank you.

6 CHAIRPERSON SLATON: Okay. Treasurer Ma.

7 COMMITTEE MEMBER MA: Thank you. I have two
8 questions. I hear the goal is 70 percent target, yet we
9 got three letters from the public saying that we have a 75
10 percent target. So have we set that target here at the
11 Board?

12 CHIEF INVESTMENT OFFICER MENG: Not that I'm
13 aware of. The goal should be 100 percent.

14 COMMITTEE MEMBER MA: Okay.

15 CHIEF INVESTMENT OFFICER MENG: But we're
16 currently hovering around 70 percent.

17 COMMITTEE MEMBER MA: Okay. And then the second
18 question, we talk about portfolios, returns, and funding
19 goals. I haven't heard anything about risk. So have we
20 set a risk target or what is our risk level?

21 CHIEF INVESTMENT OFFICER MENG: So the risk
22 level -- on the active risk, our Risk Policy, the limit,
23 is 150 bps, or 1.5 percent. Currently, we're at a 0.4
24 percent. So it's well within the risk limit on the active
25 risk. And on the total risk, is as expected within the

1 range as well.

2 But also as I mentioned that our real true risk
3 is really our equity risk exposure. So that make us
4 vulnerable -- vulnerable to a large drawdown in the equity
5 markets.

6 COMMITTEE MEMBER MA: Okay. Can you just
7 explain --

8 CHAIRPERSON SLATON: Oop. Let me put you -- let
9 me put you back on.

10 Go ahead.

11 COMMITTEE MEMBER MA: Can you just explain it
12 like in layman's terms?

13 CHIEF INVESTMENT OFFICER MENG: Yes. Yes. Yes.
14 Yes.

15 COMMITTEE MEMBER MA: I'm a CPA, so I don't
16 understand.

17 CHIEF INVESTMENT OFFICER MENG: Yeah. Yeah. So
18 the layman term, no pain, no gain, right? So in order to
19 achieve higher return, we have to take some more risk.
20 But we can be smart and intelligent about what risk to
21 take, when to take, and how much to take it.

22 So again, along the lines of no pain, no gain,
23 currently, the risk-free rate, let's call it 2.5 percent.
24 Our target is seven percent. So, you know, have a
25 risk-free portfolio is not an option to generate seven

1 percent -- seven percent return, so we need to take risk.

2 COMMITTEE MEMBER MA: Okay.

3 CHIEF INVESTMENT OFFICER MENG: And equity risk
4 in the long run has proven both private equity and public
5 equity. The equity risk premium on average, again
6 depending on which time period you look at, is about four
7 percent of equity risk premium. So if you call the
8 risk-free rate 2.5 percent plus, four percent equity risk
9 premium, that get you to about 6.5 percent. And then
10 private equity should be able to deliver more than the
11 public equity. So that's why public equity -- private
12 equity is the only asset class we expect to deliver more
13 than seven percent, with public equity slightly shy of
14 seven percent.

15 So we need to take equity risk to get to the
16 seven percent. But taking that risk, again no pain, no
17 gain. So there's a gain, but the pain is that
18 occasionally we see large equity market drawdown, as you
19 can see on this slide.

20 But the drawdown we experienced in Q4 last year,
21 relative speaking is small. And as I said, we have been
22 positioned our portfolio in a more defensive way. And
23 more importantly, in my view, the best -- the best hedge
24 against equity drawdown is to have a better liquidity
25 management framework. And that's where I mentioned that,

1 you know, too much liquidity is costly, but too little
2 liquidity is deadly.

3 But at some point in the near future we'll come
4 back to you once we finish the project -- the optimal
5 liquidity management tool.

6 COMMITTEE MEMBER MA: Okay. I got it now. Thank
7 you.

8 CHIEF INVESTMENT OFFICER MENG: Thank you.

9 CHAIRPERSON SLATON: Mr. Miller.

10 COMMITTEE MEMBER MILLER: Yeah. Thank you very
11 much. It's exciting to hear, Ben, as you are already, you
12 know, getting going on your 180-day kind of review and
13 progress that you're able to come to us and kind of
14 outline some of the things.

15 So I'm going to be really looking forward to
16 July, because the subject of your review of our results
17 and staffing and everything, and what we do well, what we
18 don't do well, performance, solutions with risk to return,
19 and especially this -- the issue you've highlighted quite
20 a bit about what's that right balance of liquidity, given
21 our needs for return and our appetites for risk.

22 And I'm wondering if between now and July, you
23 will be kind of updating us on your progress? Because
24 we've got some really big decisions to make. And I don't
25 know that they're like incredibly urgent versus having

1 that kind of information. And so I'm thinking that may
2 kind of help us frame time frames for big decisions based
3 on what you learn and are able to come back and recommend
4 from you and your team.

5 CHIEF INVESTMENT OFFICER MENG: Yes. So
6 that's -- that's our intention. We'll report back to this
7 body as we learn. So currently, there is a number of
8 projects -- projects going on concurrently. And once we
9 have enough findings, and if you deem appropriate, we'll
10 be happy to bring back to you before July off-site.

11 CHAIRPERSON SLATON: Ms. Hollinger.

12 COMMITTEE MEMBER HOLLINGER: Thank you.

13 Ben, thank you. I really appreciate the enormity
14 of the challenge you have in front of you.

15 Coming from the insurance industry where you
16 manage to a liability that's actuarially based, how fast
17 are our liabilities growing?

18 CHIEF INVESTMENT OFFICER MENG: Well, we assume
19 it grows at seven percent. But then as in the details,
20 we'll ask Scott, our Chief Actuary.

21 COMMITTEE MEMBER HOLLINGER: Thank you, Scott.

22 CHIEF ACTUARY TERANDO: Good morning. Right now,
23 our discount rate is at seven percent. So if you look at
24 the liabilities, we anticipate them to grow at seven
25 percent. The actual growth rate might be a little bit

1 higher depending upon actual experience and stuff like
2 that. But right now, we're assuming growth rate around
3 seven percent of the liabilities.

4 COMMITTEE MEMBER HOLLINGER: So you're always
5 assuming that there is kind of an alignment?

6 CHIEF ACTUARY TERANDO: Yes, that's correct.
7 And -- but we -- we do look at it every four years. We
8 conduct an experience study, and we look at -- not only do
9 we look at the discount rate, by we look at inflation. We
10 look at the mortality assumptions, as well as all the
11 demographic assumptions. And we look at how -- how the
12 liabilities are growing and how the experience lines up
13 with our assumptions.

14 COMMITTEE MEMBER HOLLINGER: Got it.

15 And then my other question, Ben, back to you,
16 recognizing that you're looking at the private equity
17 asset class to give us the outside returns to kind of
18 counterbalance the lower return expectations going forward
19 of these are other asset classes, what is -- what
20 weighting then would you give it, like in terms of is
21 it -- obviously significantly more than eight percent,
22 because, when you're talking about a portfolio of this
23 size to have an impact to be that offset.

24 CHIEF INVESTMENT OFFICER MENG: Yeah. So that
25 would be the next item. But just a short answer is we

1 would like to have as much -- as much as we can. And also
2 as much as our liquidity profile can afford us.

3 So in the next agenda item --

4 COMMITTEE MEMBER HOLLINGER: So it's kind of like
5 Yale?

6 CHIEF INVESTMENT OFFICER MENG: Yes. Yes.

7 COMMITTEE MEMBER HOLLINGER: Got it.

8 CHIEF INVESTMENT OFFICER MENG: Yeah. So you
9 will see in the next agenda item, I will run another
10 scenario at 16 percent, zero percent, eight percent, and
11 then 16 percent in private equity.

12 COMMITTEE MEMBER HOLLINGER: Got it. Okay.
13 Thank you very much.

14 CHAIRPERSON SLATON: Ms. Taylor.

15 COMMITTEE MEMBER TAYLOR: Yeah. Thank you, Mr.
16 Chair.

17 Thank you, Ben. I appreciate your report. And I
18 do appreciate the clarification and clarity that you're
19 providing under the three points. That helps me kind of
20 get my brain around -- wrapped around what we're trying to
21 do here.

22 I just wanted to -- it looks like to Treasurer
23 Ma's statement here about the public letter, it looks like
24 it's a typo. It's supposed to be seven percent target
25 rate. Yeah, investment -- our investment returns. So I

1 just wanted to bring that up as well.

2 Thank you.

3 CHAIRPERSON SLATON: Okay.

4 CHIEF INVESTMENT OFFICER MENG: Okay. Now, that
5 makes sense. Thank you.

6 (Laughter.)

7 CHAIRPERSON SLATON: Okay. I see no further
8 requests to speak. I want to thank you very much for this
9 review and your team. I -- you know, this is taking a
10 clear-eyed approach to what our challenges are. I would
11 note that you know have 150 days, not 180 days.

12 (Laughter.)

13 CHIEF INVESTMENT OFFICER MENG: Thank you.

14 CHAIRPERSON SLATON: No pain, no gain.

15 CHIEF INVESTMENT OFFICER MENG: No pain, no gain.
16 Exactly.

17 CHAIRPERSON SLATON: Okay. Thank you very much.

18 And now we will move to Item 7c, which there's a
19 great deal of interest. I have 10 speakers on my list.

20 CHIEF INVESTMENT OFFICER MENG: Ten speakers.

21 CHAIRPERSON SLATON: Ten speakers. But we will
22 start with the staff presentation.

23 CHIEF INVESTMENT OFFICER MENG: Great. So I will
24 carry this presentation with my colleague -- my dear
25 colleague John Cole.

1 (Thereupon an overhead presentation was
2 Presented as follows.)

3 CHIEF INVESTMENT OFFICER MENG: So as you recall,
4 that last December the staff made a presentation to you
5 in -- about two private equity vehicles, you know, for us
6 to gain more investment capabilities in private equity as
7 an asset class with the objective to achieve the scale,
8 and then to improve transparency, improve control, and
9 reduce cost.

10 So today I'm here -- I would like to share with
11 you my opinion -- or my view about private equity as an
12 asset class, and particularly what I think of the
13 innovative approach that has been under discussion for
14 quite some time at CalPERS, the Pillar 3 and Pillar 4 what
15 I think of Pillar 3 and Pillar 4. And then I would like
16 to share with you what we -- most of the staff has learned
17 so far during the past -- in a year -- year-long process,
18 and our steps forward.

19 So basically the agenda item will try to address
20 four questions. For one, why do we need private equity?
21 The second question, why do we need Pillar 3 and 4? And
22 what we have learned -- what are the risks and what are
23 the ways we can mitigate the risk, and what we have
24 learned so far. So we organized the agenda item with the
25 four questions.

1 --o0o--

2 CHIEF INVESTMENT OFFICER MENG: So the very first
3 question is why private -- why -- why do we need private
4 equity?

5 And the answer is very simple. So if I could
6 give you a one line exact summary of this entire
7 presentation would be we need private equity, we need more
8 of it, and we need it now. So let's talk about the first
9 question, why do we need private equity?

10 And the answer is very simple, to increase our
11 chance of achieving the seven percent rate of return, and
12 to stabilize employer contribution, and to help us to
13 secure the health and retirement benefit of our members.

14 Private equity has outperformed over multiple
15 economic cycles, has outperformed all the other major
16 asset classes. And with our own experience in the past 20
17 years, our own private equity portfolio delivered 10.5
18 percent annualized return way above the seven percent
19 target.

20 And then last year alone, our private equity
21 portfolio delivered 16 percent return. And this is --
22 again, this slide shows you -- this is another way to show
23 you the performance of private equity. So this is since
24 inception of our Private Equity Program at CalPERS. For
25 each dollar for -- since 1992 to today, each dollar in

1 private equity returned to more than \$15 to us, with a
2 note -- noticeable gap better than the second best
3 performing asset class, which is global equity, which
4 delivered over \$11 of the return.

5 So this is -- so that's -- I list empirical
6 evidence. Our historical experience is that private
7 equity is the best performing asset class. And as we all
8 know that when we go out to buy a financial product in
9 every time there's the fine print, you know, on the bottom
10 saying that, you know, the past performance is no
11 indication for future performance.

12 So with that, how do we gain more conviction
13 level that, you know, the past -- the repeatability of the
14 good performances in the past? So to me, we can gain a
15 high conviction label if we understand the drivers of the
16 past performance, and then we can assess whether these
17 drivers for past performance will continue to exist in the
18 future.

19 So, in my view, the private equity, particularly
20 the growth and buyout strategy -- so the private equity
21 managers, that have four levers to play to generate excess
22 return. There were four drivers for the past good
23 performance. So one, they can buy -- they buy cheap. So
24 they buy the cheaper. And then they improve the
25 profitability of the company. They add -- then they add

1 smart leverage, and then they sell it higher.

2 So buy low, sell high, right? The first step is
3 buy low. The last step, sell high. And these factors are
4 really about the inefficiency of the private markets. And
5 then after you bought the company cheaper by low, you
6 know, you have to fix up the company, improve the
7 profitability of the company, and then add smart leverage
8 to amplify, you know, the improvements, right?

9 So this I call the skills.

10 So going forward, I believe that, you know, the
11 market -- the private markets will continue to remain
12 inefficient, so that the skillful managers can continue to
13 exploit the market inefficiency in private equity.

14 And that's one of the reasons in the
15 forward-looking market -- capital market assumptions as
16 what we did in the 2017 asset liability management
17 workshop. There's only one asset class where expect to
18 deliver more than seven percent return. That's private --
19 private equity in our portfolio. We expect private equity
20 in the long run to deliver 8.3 percent compound return,
21 and again, compared to the second best -- the asset class
22 with the second highest expected return, which is 6.8
23 percent from public equity.

24 So we need private equity. And this is simple
25 path, right? If you're trying to achieve -- if you are

1 trying to achieve seven percent return, and there's only
2 one asset class that is forecasted to deliver more than
3 seven percent of the return, you need that asset class in
4 the portfolio and you need more of it.

5 And now the question is how can we do that in the
6 most risk-prudent way, in the most-risk intelligent way?
7 So that would be the late -- later part of my
8 presentation.

9 --o0o--

10 CHIEF INVESTMENT OFFICER MENG: So this is --
11 going forward, this is a simulation to show the impact of
12 private equity in our portfolio to deliver return in the
13 future. So the first column you see the existing ALM
14 policy portfolio, where we have private equity with the
15 target allocation eight percent. And with that, our
16 discount rate is seven percent, and the employer
17 contribution reaches 31 percent.

18 Now, let's say if we were to remove private --
19 private equity completely from our portfolio. So our
20 expected return would drop from seven percent to 6.7
21 percent. And more importantly, you see that 10 percent
22 jump in the employer contribution rate from 31 percent to
23 34 percent.

24 So now, let's say that if we were able to double
25 our allocation from eight percent to 16 percent, that

1 would increase our expected return from 6.7 percent to 7.3
2 percent. And that would reduce the employer contribution
3 rates by 10 percent from 31 percent to 29 percent. So
4 this shows that the impact of private equity on a
5 forward-looking basis -- the impact of private equity on
6 our ability of achieving the seven percent return, and our
7 ability to provide the stability of the employer's
8 contribution rates. So that means that we need private
9 equity, and then we need more of it.

10 --o0o--

11 CHIEF INVESTMENT OFFICER MENG: And there's
12 another reason that we need more of private equity. As we
13 discussed this morning and also last month that, you know,
14 there are more and more companies are staying private for
15 longer. And for CalPERS to have access to that segment of
16 the wealth creation, we need to be in that space. So we
17 need more private equity just to stay at par with the
18 market opportunity shift, because the market has --
19 opportunity has been shifting more and more into the
20 private space.

21 So for us to capture that of the market
22 evolution, we need more private equity. But we need more
23 private equity, but we can do -- again, we can do so in a
24 smart way.

25 What do I mean by in a smart way? You know, a

1 smart way is to leverage our comparative advantages. And
2 as I said last month in my presentation that we have a
3 number of comparative advantages, namely our scale, our
4 brand, and then again our improved liquidity profile. And
5 with this, I believe that Pillar 3 and Pillar 4, the
6 innovative approach that we are exploring now, Pillar 3
7 and Pillar 4 may be the best way for us to take advantage
8 of our comparative advantages.

9 --o0o--

10 CHIEF INVESTMENT OFFICER MENG: So we just
11 discussed why do we need private -- private equity.

12 Now, to the second question, why do we need
13 Pillar 3 and Pillar 4? And also what's the relationship
14 between the conventional approach that what we are -- what
15 we are doing right now with the Pillar 2, the commingled
16 fund. So what's the relationship between the conventional
17 approach, which is Pillar 2, and the innovative approach,
18 with the Pillar 3 and Pillar 4? So we'll address this
19 questions right now.

20 So there's -- under the conventional approach,
21 the commingled fund approach that we are doing right now,
22 which is Pillar 2, there's no question that we can do
23 more. There -- we should continue to explore other ways,
24 so that we can do more in Pillar 2, and such as, you know,
25 co-investment as our -- your consultants, and Ms. Brown,

1 and also a number of you mentioned already. We need to
2 continue to explore how we can do more in co-investments,
3 separate accounts, and in secondaries.

4 So there's no question about that, we can do
5 better do there. But given the size of our fund relative
6 to the market capacity there, this low-hanging fruit may
7 not be enough for us now to get to where we need to be.

8 In the commingled fund space, as you know that,
9 you know, the performance dispersion among the general
10 partners or private equity manager is huge, and for you to
11 be successful. And that's part of our success secrets in
12 the past with CalPERS, because we had access to the top
13 managers, again because of our brand, our scale.

14 And -- but there are only that number of top
15 quartile managers. And not all the managers are good at
16 everything. So usually the general partners, they're only
17 good at one or two things. So for us to deliver the good
18 return, because the dispersion is so big, you always want
19 to have the top managers.

20 So the top manager, there are only that many of
21 them. And their facts should found that there's only that
22 many of them. And they only come to market to raise the
23 fund in say every three years or four years. And also, as
24 mentioned that, you know, they would like to have a
25 diverse -- diversified or diverse LP base. They do not

1 want to take money just from CalPERS only. They want to
2 have a diverse base of their customer base.

3 So with these all together is that we may not be
4 able to get to where we need to be with just Pillar 2. So
5 we need Pillar 3 -- Pillar 3 and 4.

6 And then in addition to the capacity constraints,
7 there are other reasons that we need to continue to
8 explore Pillar 3 and Pillar 4. We liked the return from
9 the conventional private equity approach, which is Pillar
10 2. But there are certain things that we do not like about
11 the conventional approach.

12 For example, the lack of control, lack of
13 transparency, and then the high fee. And that's exactly
14 the reason where we can leverage our comparative
15 advantages, again our brand and our scale. We can
16 negotiate better by doing -- by doing Pillar 3 and Pillar
17 4.

18 So that is the second question, why do we -- we
19 need more -- we need private equity. We need Pillar 3 and
20 4. And the relationship between Pillar 2 and Pillar 3 and
21 4 is not "either/or", it's "and". We need to explore all
22 the options available to us to generate the required rate
23 of return.

24 --o0o--

25 CHIEF INVESTMENT OFFICER MENG: So one of the

1 concerns that you had shared with us in the past about
2 Pillar 3 and Pillar 4, the innovative approach, is really
3 around the transparency. And as this table show to you
4 that actually, as I said, that the transparency to us will
5 be improved more transparency under Pillar 3 and Pillar 4.
6 But it is important to note that the improved transparency
7 is improved transparency to CalPERS.

8 The general public will get exactly the same
9 level of transparency as they do now. So the improved
10 transparent -- it's more transparency not less
11 transparency. But at least more transparency is through
12 CalPERS, so that when we have more information about our
13 partners and the type of business they do, we can make
14 better investment decisions. We could generate higher
15 returns. We can also reduce the fee.

16 But in order to pass on that benefit to our
17 retirees, and members, and employers, we need to protect
18 that proprietary information away from the public. So on
19 the note of transparency to Treasurer Ma, we will have
20 more transparency, not less transparency. But more
21 transparency is more Transparency to CalPERS for us to
22 make better investment decisions, and to pass on more
23 benefit of private equity investing to our members.

24 Oh, the other concern that you shared in the past
25 is that why don't we bring the expertise in-house, like

1 some of our global peers, such as GIC and CPPIB have done.

2 So the challenge is really timing and the
3 sequencing. So on timing is that currently we do not have
4 this expertise in-house. And our current governance
5 structure -- conversation structure, and also the fact
6 that we're not located in a Global financial center,
7 seriously hinder our ability to attract the expertise
8 in-house.

9 So for that reason, I do not view bringing the
10 expertise in-house right now. I not view that as a viable
11 option. But Pillar 3 and Pillar 4 are viable now, and we
12 need return from private equity now. So that's the timing
13 part.

14 The sequence -- the sequencing part is that also
15 Pillar 3 and Pillar 4 is halfway between where we are now
16 and where the -- our -- some of our global peers, such as
17 the Canadian fund is doing, so halfway between. So the
18 sequencing part is that I think we should toss out the
19 idea and improve the concept for a while. And if it
20 works, then we can explore, you know, bringing it
21 in-house.

22 So basically we need to learn how to walk before
23 we can run, and that's the sequencing part of it.
24 However, that being said, that, you know, as I just
25 mentioned early on, we need private equity. We need more

1 of it, and we need it now.

2 So when -- when -- if and when it becomes a
3 viable option - we remain very open-minded - we'll explore
4 that option. Again, if and when it becomes a viable
5 option. So that's the other concern you have is about why
6 don't we just bring -- bring the expertise in-house now.

7 --o0o--

8 CHIEF INVESTMENT OFFICER MENG: So, you know, we
9 talk about, you know, we need private equity, we need
10 Pillar 3 and 4. And what are the risks I see?

11 So Pillar 3 and 4 are not resolved risks. And
12 one of the risks I see is the market risk or valuation
13 risk. As you heard from your consultants this morning,
14 that all major asset classes are rich. And private equity
15 is not an exception to it.

16 So then naturally the question is that -- now is
17 the right timing to do -- to ask you to these strategies
18 and -- so that is the timing risk.

19 But as we know that market timing is very
20 difficult, there are some evidence to show that instead of
21 market timing, a steady allocation to private equity is
22 probably a better approach than market timing. And more
23 importantly, in the relative sense, private equity is not
24 any richer than other asset classes.

25 And given this part of the economic cycle, as

1 what you heard from consultant and also from John
2 Rothfield a moment ago, we're in the late part of
3 economic -- economic cycle. And in that part of the cycle
4 actually I prefer private equity over public -- over
5 public equity. So, yes, all asset classes are rich,
6 highly valued. But relatively speaking, private equity
7 probably is a better place to be, provided that we have
8 the liquidity profile.

9 So that's the risk. But what I truly see the
10 risk here, in addition to the valuation, is really in
11 implementation risks. So this is how I break down this
12 question, Pillar 3 and Pillar 4. I break it down into
13 four questions to be answered or addressed in sequence.
14 First, is this a conceptual -- is a good fit for our
15 portfolio or not? So the why part, why do we do it?

16 And my answer to that is a resounding yes, right.
17 The reason that we just went through in the past 10
18 minutes or so. We need private equity, so it's good
19 conceptual fit.

20 Now, the question is can we find highly capable
21 partners? That's the who part. And then one thing is to
22 find the highly capable partners. It is another thing to
23 design the governance and the economic terms to make sure
24 that the highly capable partners they're aligned with our
25 objectives. So I call the who and the how part is the

1 implementation details.

2 And currently, we are exploring these two
3 questions, the who and the how questions. We have -- we
4 do not have a definitive answer yet. And we'll share with
5 you this afternoon about what we have learned so far.

6 And then the last question is really the how
7 much -- how many partners and how much we should do it?
8 So that's the what part. And that's -- that can be
9 addressed in the later part of the project.

10 So -- so in short I see -- I do see the risk in
11 the implementation, funding the right partners, and then
12 have the right governance and economic terms in place to
13 make sure that a highly capable partner will be working
14 for us, not for themselves.

15 And with that risk, I'm very glad to see that our
16 staff has adopted a trial and learn approach, with no
17 specific outcome and no specific timeline in mind.

18 As we learned in the January off-site at what --
19 how we might access that, you know, to achieve higher
20 returns, we have to take on more risk. But again, we can
21 be smarter and intelligent about what risk to take and
22 when to take it.

23 The challenge here would be finding the right
24 partners. And timing-wise, it's true with any innovation,
25 it may or may not work, and it may or may not work now.

1 However, given our current funded -- underfunded status,
2 and our outlook for the global economy, doing nothing is
3 not an option. We owe it to our employers, our members to
4 explore Pillar 3 and Pillar 4 and plus other solutions to
5 generate the seven percent required rate of return before
6 we may be forced to go back to lower the discount rate
7 again.

8 So, in conclusion, we need private equity, and we
9 need more of it, and we need it now. But we will do it in
10 the most risk-prudent way and in the most risk-intelligent
11 way. And what I mean by the most risk-intelligent way, to
12 leverage our comparative advantages.

13 So with that, we're ready for any questions.

14 CHAIRPERSON SLATON: All right. Thank you.

15 Given the hour, and without objection by the
16 Committee members, I'd like to move the public comment
17 now, and let us then, depending on the hour, we may break
18 for lunch. But people have been waiting since early this
19 morning, so we'll do that first.

20 So the first three people are J.J. Jelincic,
21 Larry Woodson, and Ruben Ingram, if you'd come on down.
22 There was a request to extend the time to four minutes.
23 But in the interests of time and because of the number of
24 speaker, we're going to still leave it at three minutes
25 per person.

1 We did receive letters in support of staff
2 recommendation from California Professional Firefighters,
3 California School Employees Association, and SEIU
4 California.

5 So as you start, your name and affiliation,
6 please, and setting the clock for three minutes.

7 MR. JELINCIC: Who was -- who was first?

8 CHAIRPERSON SLATON: Mr. Jelincic.

9 VICE CHAIRPERSON FECKNER: You're on.

10 MR. JELINCIC: Hi. I'm J.J. Jelincic. And I
11 want to go back and look a little bit at how we got here.
12 We started with the assumption that private equity was
13 necessary. And we sort of ignored that it's really
14 leveraged small cap equity. And in order to reach the
15 conclusion that it's necessary, we have to reject all the
16 academic work on it.

17 Then we assumed that we couldn't hire the skill
18 set internally. Clearly, we have the legal authority.
19 You're already paying for it through the back door. I
20 acknowledge you're afraid of the Sacramento Bee. And it's
21 somewhat ironic that we can -- we think we can pick the
22 people who can do the job and identify people with the
23 skill set, but somehow we can't hire them.

24 I ask if anyone remembers the original three
25 companies, each with their own board, staff, and advisory

1 committee. PERS direct would be used to allocate the
2 capital between innovation and horizons. I haven't heard
3 that it's been killed yet, but we haven't talked about it
4 lately.

5 We started out we were going to set up separate
6 captive companies that we would own, and they could hire
7 staff. That way, we could capture the economics and
8 scale. We were concerned about things remaining private.
9 If the State owned it, then we had possible Form 700,
10 bagley-Keene, and 1090 problems.

11 And it kind of defeated the whole purpose, as
12 Matt Jacobs identified that the whole purpose is to keep
13 secret - we wouldn't want the beneficiaries to know what
14 we're doing with their money.

15 We moved to setting up and giving away a company,
16 so we wouldn't own it. That allowed for greater secrecy.
17 The company would set up a GP/LP structure. We would be
18 the only limited partner. The -- we recognize that the
19 management may want to have other LPs for their own
20 interest, and so eventually there might be additional LPs.

21 The corporate structure raised some tax issues,
22 so we moved to an LLC. CalPERS would be the only member
23 of the LLC, so the income and tax issues would flow
24 through to the system. It's not clear why we're going to
25 have an LLC. If it's going to do the investment, that's

1 one thing. If it's simply going to be a limited partner,
2 then the question is why create an LLC to be a limited
3 partner, because you have all the same advantages.

4 I'm not sure how you set up a LLC where the sole
5 member doesn't own it. That's the very nature of
6 structure. Remember, the staff has publicly said that
7 plans lead to higher costs and lower returns.

8 I think you need to bring it in-house, but the
9 current plan --

10 CHAIRPERSON SLATON: Please complete your
11 remarks.

12 MR. JELINCIC: -- is clearly not ready for prime
13 time. Thank you.

14 CHAIRPERSON SLATON: Thank you. Mr. Woodson.

15 MR. WOODSON: Good morning. Larry Woodson,
16 California State Retirees. Mr. Chair, members of the
17 Board, thank you for the opportunity to comment.

18 My comments will express continuing concerns with
19 the proposed PE model and with the expected timing for its
20 presentation to the Board for approval. I attended the
21 January off-site, along with President -- CSR President
22 Tim Behrens and many of our Board members. And we were
23 impressed with Mr. Meng's presentation, his methodical
24 approach to transitioning into his role, as we've already
25 heard today.

1 And at stakeholders last Thursday, Mr. Behrens
2 wanted confirmation that this approach suggested that
3 there would be no major decisions, particularly regarding
4 the controversial PE model, for the first 180 days. And
5 we were surprised to hear Mr. Pacheco state that, in fact,
6 the PE model would likely be brought for Board approval at
7 the March Investment Committee meeting. That schedule, a
8 mere two months, seems in conflict with Mr. Meng's stated
9 approach -- six-month approach

10 We've continued to evaluate what we've heard from
11 CalPERS staff regarding the proposal, and have read
12 addition critical assessments in a number of online
13 publications. Our concerns include, one, the governance
14 model of establishing and funding these two independent
15 corporations fully with our pension funds, yet lacking
16 transparency to stakeholders.

17 Specifically, no salaries or operating costs
18 would be revealed to us for the two general partners. We
19 can't evaluate a cost comparison to the 2 plus 20 costs.

20 Thirdly, staff requests for Board delegation to
21 staff for most all key governance decisions.

22 Four, uncertainties over the tools the Board has
23 to evaluate effectively -- or the effectiveness of the GPs
24 or take necessarily medial action.

25 And we're also -- we've also seen two studies

1 showing one -- one of which showed 49 percent of PE
2 managers overvaluing assets, some over 100 percent, and
3 another showing that the PE market advantage in returns
4 over public equity returns has narrowed substantially in
5 the last 10 years.

6 Just a snapshot of that, and I know it's just a
7 snapshot, but that was demonstrated in your annual
8 investment report in December, which showed CalPERS global
9 equity net returns outpaced the PE net returns by six
10 percent. That's different than the chart that I saw on
11 page two.

12 But, in conclusion, with the addition of several
13 new Board members learning all aspects of Board
14 governance, we feel it's prudent to give them more than 60
15 days before making a decision. And we encourage continued
16 dialogue with stakeholders.

17 Thank you.

18 CHAIRPERSON SLATON: Okay. Thank you. And just
19 a minute, before Mr. Ingram speaks, Mr. Hajela - if I'm
20 pronouncing your name correct - Ms. Penry and Mr.
21 Brennand, if you would start to make your way down to
22 these three chairs, so we can take your comment as well.

23 So, Mr. Ingram.

24 MR. INGRAM: Thank you.

25 I'm Ruben Ingram with School Employers

1 Association of California. And I'm also representing
2 the -- some of the clients from Capitol Advisors.

3 We're here really to support the proposed private
4 equity investment plan as developed by your staff. The
5 reason we support it, of course, is that we want the fund
6 performing at the highest possible level in terms of what
7 happens -- the results happen with us employers.

8 This is extremely important to school districts,
9 particularly our employees who have been facing increasing
10 contribution rates, which I know you're concerned about.

11 With the higher returns, these increases can be
12 mitigated, as your staff has been reporting to you.
13 Without those higher returns, we obviously are going to be
14 forced to divert funds away from needed salary increases.
15 You've seen that in Los Angeles and other districts where
16 those demands are increasing. And also, we'd have to
17 shift funds from students and their programs, which we
18 really want -- don't want to do. And if that doesn't
19 happen, we have to backfill from our funds.

20 We understand that higher returns bring higher
21 risk, and that was fully explained. But we've had
22 discussions with your staff, and we're satisfied that they
23 understand how to mitigate those risks.

24 And so we just believe that the fund has to be
25 solid, it has to be increased, and otherwise we have to

1 shoulder the burden at the local level. And I'm sure you
2 don't want us to have to do that, so thank you very much.

3 CHAIRPERSON SLATON: Okay. Thank you, Mr.
4 Ingram.

5 Mr. Hajela is here or not, or did you speak on
6 his behalf?

7 I don't -- I don't think he's here.

8 So Ms. Penry, and Mr. Brennand, and Mr. Darby can
9 make is was down as well.

10 I don't see Mr. Darby here.

11 Oh, he's coming. Okay. Good.

12 All right. Ms. Penry.

13 MS. PENRY: Thank you. Good -- thank you, Mr.
14 Chair and members of the Board. My name is Martha Penry.
15 And I am the Chair of the California School Employees
16 Association Legislative Committee, which covers both
17 active and retired CSEA members.

18 Excuse me.

19 The California School Employees Association
20 supports the staff recommendation on private equity.
21 Private equity is a critical element of the CalPERS
22 portfolio. However, private equity is also notoriously
23 non-transparent and entails high fees. Despite this,
24 private equity has been the only category of investment
25 that has consistently outperformed the discount rate, even

1 after fees are considered. And CalPERS must include
2 private equity in a diversified portfolio in order to
3 maximize its ability to meet the current seven percent
4 target.

5 The private equity plan proposed by CalPERS staff
6 is well researched, and thought out. CSEA believes that
7 it strikes an appropriate balance, because it proposes to
8 take advantage of CalPERS' ability to invest long term,
9 and identify opportunities that many hedge funds might
10 overlook due to their more short-term horizons and
11 interests in immediate returns.

12 The proposal is also consistent with the values
13 of our members, who want their money invested in companies
14 that create good jobs, and are built to last rather than
15 in hedge funds that squeeze the value out of companies by
16 looting their assets and abusing employees.

17 Classified employees and other members of CalPERS
18 rely on you to be stewards of our funds, to invest them
19 wisely, and to administer benefits effectively.

20 The private equity plan before the Board breaks
21 new ground and has been developed over 18 months with
22 input from a variety of experts. While nobody can predict
23 or guarantee success, we believe it is worth pursuing, and
24 we urge the CalPERS Board to approve the plan and move
25 forward.

1 Thank you.

2 CHAIRPERSON SLATON: Thank you for your comments.

3 Mr. Brennand

4 MR. BRENNAND: Mr. Chairman, members, Terry
5 Brennand on behalf of SEIU California. I guess I want to
6 start with saying the existential question it was
7 discussed earlier about whether we should be in private
8 equity or not is a completely different debate than what
9 we have before us now. You're in it now. You're playing
10 by the rules now. Pillars 3 and 4 are about changing
11 those rules, about changing the game.

12 Some of them -- some of the proposals are about
13 repairing some of the inequities and the problems in
14 private equity, transparency, the pillaging of agencies --
15 I'm sorry, of companies, and the fee structure being very
16 structured not to the best advantage of CalPERS.

17 I think the most important thing in the very good
18 presentation by your CIO was you've got to learn to walk
19 before you run. I don't disagree with Mr. Jelincic that
20 eventually this would be great if it were all in-house, if
21 we had the staff, and the expertise to do this with public
22 CalPERS staff.

23 We do not. And I think this is the walk, the
24 step toward getting there some day. But you've got to
25 learn to walk before you run. And we're happy to walk

1 along with you. So we support the staff.

2 CHAIRPERSON SLATON: Thank you.

3 Mr. Darby and then followed by Mr. Hutchings and
4 then Mr. Neill.

5 MR. DARBY: Mr. Chair, Board members, good
6 afternoon. Al Darby, President, Retired Public Employees
7 Association.

8 The Retired Public Employees Association
9 continues to oppose CalPERS direct as the costs is
10 unnecessary, and beyond the cost of existing staff. The
11 venture capital and long-term care -- or long-term hold
12 portions of the thing can easily be handled by the
13 existing staff, just as the Ontario Teachers System now.

14 A growing body of evidence indicates that the
15 notion that -- is that public equity is greater in value.
16 It's losing its appeal, because of diminishing returns,
17 questions about private equity, risk, and versus global
18 equity risk. There seems to be a much closer relationship
19 than one thought about the risk factor of public equity.

20 The -- RPEA opposes the current construct of
21 CalPERS direct, because the costs and the general partners
22 would be less responsive to the concerns of the CalPERS
23 Board and transparency in general.

24 We believe that an augmented in-house staff with
25 a new leader, which you haven't had for almost two years,

1 plus private equity experts, pay them the equivalent of
2 carry, and, you know, with bonuses and so forth, you'll be
3 able to find people that can do this job. The way to go
4 is bringing it in-house, finding the right people to run
5 the organization, and you could still do the long-term
6 hold and venture capital portions of the thing from and
7 in-house staff.

8 Thank you.

9 CHAIRPERSON SLATON: Okay. Thank you for your
10 comments.

11 Mr. Hutchings.

12 MR. HUTCHINGS: Good afternoon. Dane Hutchings
13 with the League of California Cities. It's nice to see
14 some new Board members here. It's one of these more
15 contentious topics.

16 You know, we've heard today from folks who are
17 opposing staff's recommendation based on two things, fees
18 and transparency. So from the local government
19 perspective, from the city perspective, let's -- let's,
20 you know, talk about some facts that we know to be true.

21 So when we look at the Pension Dollar, \$0.59 is
22 based on investment returns, \$0.28 is employers and, \$0.13
23 is employees. But we know that's also predicated on if
24 you guys can hit the seven percent. And it's critical
25 that we hit that seven percent. In the case of local

1 agencies, it's borne on us if there is a shortfall.

2 According to our study, 10 percent of cities will
3 be -- by fiscal '24-'25 will be spending about 21 percent
4 or more of their entire general fund budget -- their
5 entire general fund simply on the minimum contributions
6 for CalPERS. And that's assuming you hit seven percent.
7 What happens if we come up short?

8 The proposed PE model will allow your investment
9 team to maximize the full potential of the only asset
10 class exceeding expectations after fees. So we've talked
11 about fees. We've looked at the history, 10.5 over 20,
12 16.1 for the last fiscal year. And that's after fees have
13 been paid.

14 There's also something we haven't talk about here
15 is that under the current paradigm there's been
16 significant investment barriers. This -- this fund has
17 missed the boat on things in our backyard, Facebook,
18 Instagram, you know, these emerging technologies - Uber -
19 before they went public. And quite frankly, these
20 companies don't want CalPERS' money when they're private.
21 They say no thank you. We'll take -- you know, the money
22 is just as green in Nevada. It's just as green up north.

23 And what we're seeing with this new model is it's
24 going to allow us to play in an area that we've never been
25 able to maximize before. It's going -- it's going to

1 allow your staff an additional tool to try and maximize
2 investment.

3 And so I maintain the same message that I have
4 given to folks when we talk about divestment and why we
5 shouldn't going down that road, is that whether it's the
6 State Legislature, the CalPERS Board, or the media, they
7 can't do -- they can't kick the Investment team for not
8 hitting their target while at the same time not allowing
9 them to have every tool at their disposal -- exposure to be
10 able to maximize their investment returns.

11 If you give them all the tools and they still
12 can't meet their number, then that's one thing. But you
13 can't continue to take things off the table, not pursue
14 things that have been, by the way, proven to work in other
15 countries and other pension systems, and then at the same
16 time kick them because they can't meet their investment
17 targets.

18 I strongly encourage that this Board continue the
19 conversation, approve this model. You know, it's not very
20 often that Mr. Brennand and I are agreeing on the same
21 thing.

22 (Laughter.)

23 MR. HUTCHINGS: So I'm telling you right now, I
24 think -- we think it's good for the employee. It's good
25 for the employer. I think we take the right -- the step

1 in the right direction.

2 Thank you very much.

3 CHAIRPERSON SLATON: Thank you.

4 Mr. Neill.

5 MR. NEILL: Yes. Geoff Neill with the California
6 State Association of Counties. I want to second the
7 comments of Mr. Hutchings that the seven percent return is
8 critical for counties as well as our workers, our retirees
9 for their retirement security, and also to protect the
10 public services that all of us rely on. Private equity,
11 as you heard from Mr. Meng and the other presenters is an
12 important tool, because it gives you returns that you
13 aren't getting from any of your other assets classes. And
14 so we'd like to join our support with -- with those of the
15 employees to support this -- this proposal.

16 CHAIRPERSON SLATON: All right. Thank you very
17 much.

18 Oh, Mr. Hutchings.

19 MR. HUTCHINGS: Just one. I was remiss in saying
20 that Mr. Gibbons from the California Special Districts
21 association was unable to be here. He had to go to a
22 meeting.

23 CHAIRPERSON SLATON: Had to leave.

24 MR. HUTCHINGS: But he did ask that I also
25 provide their support as well.

1 CHAIRPERSON SLATON: Okay. All right. Thank you
2 very much.

3 Now, in the interests of time, what we're going
4 to do is break for lunch. We'll come back to open session
5 at 2:00 o'clock, and then we'll enter into discussion by
6 Board members at that time. And you're all welcome to
7 come back at 2:00 o'clock.

8 That will be then followed by the closed session.

9 (Off record: 1:12 p.m.)

10 (Thereupon a lunch break was taken.)

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1 A F T E R N O O N S E S S I O N

2 (On record: 2:00 p.m.)

3 CHAIRPERSON SLATON: All right. If everyone will
4 be seated, we'll continue the meeting.

5 All right. We're continuing the conversation on
6 7c. And we'll now have commentary from Board members
7 starting with Ms. Brown.

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

9 I just want to make sure Mr. Meng is ready.

10 Okay. So thank you for the presentation. I did
11 have a couple of quick questions kind of going back to
12 December, and then we'll move on to today. But just real
13 quickly, when we talk about -- this is on page five of
14 seven. When we talk about -- now, we're calling them 2,
15 3, and 4. So are we not going to call them innovation and
16 horizon anymore, or we just going to call them 2, 3, and
17 4. The way we made that decision.

18 CHIEF INVESTMENT OFFICER MENG: I don't think --
19 I think --

20 CHAIRPERSON SLATON: You need to put your mic on.

21 CHIEF INVESTMENT OFFICER MENG: Sorry. I don't
22 think a decision has been made. It's just my personal
23 preference I use Pillar 3 and 4. Yeah, but you're right,
24 Pillar 3 is about innovation, Pillar 4 is the long term.

25 COMMITTEE MEMBER BROWN: Great. I just -- I just

1 want to say -- well, because I'll start memorizing that,
2 because I was -- we were just calling them by their name
3 before, and now we'll call them by their numbers. Okay.

4 So, you know, Pillar 3 we were -- we heard -- I
5 think -- I'm not sure if it was Wilshire or Meketa earlier
6 today talking about what type of losses or how you get
7 your gains in venture capital. And I think we heard, you
8 know, 20 percent are losers, 60 to 70 percent break even,
9 and 10 to 20 percent are winners. But he's also talking
10 about Series A funding or is that the same whether we're
11 buying in early stage - he called it angel - or late stage
12 D? I mean, do those numbers change very greatly depending
13 upon what fund you get?

14 CHIEF INVESTMENT OFFICER MENG: Yes. So what
15 Meketa was referring to, the first -- really, the -- when
16 you have an idea -- entrepreneur has an idea, want to
17 raise money to fun business, normally they call it seed
18 money. So the -- from the seed money, so where you get
19 seed money, people are called 3Fs. So it's kind of joke
20 around the 3F is where do you get seed money? Your
21 family, your friends, and fools.

22 So why the third F is fools is because it's very
23 risky, right? And if you had family and friends that, you
24 know, your son or your daughter-in-law ask you for money,
25 because she get a great idea. So very risky portfolio.

1 But also -- but also early part if it works well, it turn
2 out to be a great deal. You can make a thousand times of
3 money. So there's the seeding, angel investing.

4 And then in venture -- then you move on to the
5 venture investing. Venture investing has Series A, Series
6 B, sometimes C as well. After you run C, most likely you
7 grow up into a growth bucket. And after growth is the
8 buyout bucket.

9 So between Series A and B and C, is really about,
10 first, you have idea. And then from idea to the product.
11 Can you produce the product? You have, you know, paid in
12 to produce a product. And then from the -- once you have
13 the product, can you sell the product? Can you have the
14 first customer? So that's very important to have a first
15 customer.

16 And then after the first customer, do you have a
17 repeatable customer? That's another very important test.
18 So as long as the company grow, your cash flow situation
19 from negative to positive. So -- and then your risk
20 profile is becoming more and more stable the return. So
21 you don't get the -- shutting the lights off kind of
22 return anymore, as you move on to growth and buyouts.

23 COMMITTEE MEMBER BROWN: Great. So basically,
24 when we talk -- so when Meketa talked about the 20 percent
25 losers, 60 to 70 percent you break even, 10 to 20 percent

1 are winners, that was for the Series D, or late stage,
2 venture capital?

3 CHIEF INVESTMENT OFFICER MENG: No, that was on
4 every series, Series A, B, and C put it together.

5 COMMITTEE MEMBER BROWN: About there. Okay.
6 Great. I was just trying to figure out where our -- where
7 our winners are. I mean, is it going to be higher than 10
8 or less than 10? All right.

9 And then on that same slide, Pillar 4, we talk
10 about decreasing friction costs and avoid redeeming from
11 ourselves. And so I believe we're talking about churn, is
12 that what we're talking about there?

13 CHIEF INVESTMENT OFFICER MENG: Right.

14 COMMITTEE MEMBER BROWN: Do we track that? Do we
15 know what that is costing us?

16 CHIEF INVESTMENT OFFICER MENG: In terms of
17 churning from fund to fund?

18 COMMITTEE MEMBER BROWN: One fund sells our
19 investment and then we buy it through another fund. Is
20 that call -- isn't that what's called churn?

21 CHIEF INVESTMENT OFFICER MENG: Right. Right, it
22 is. It is.

23 COMMITTEE MEMBER BROWN: Okay. All Right. I
24 just want to be clear.

25 CHIEF INVESTMENT OFFICER MENG: I don't think we

1 have done -- we have done that study. We have -- we have
2 the data to conduct that study, and I'm not even aware of
3 other people who has done that study, because again
4 private equity as a private market, normally we do not
5 have a lot of data, not like in public markets that you
6 can do all sort of analysis due to a large amount of high
7 frequency data available.

8 COMMITTEE MEMBER BROWN: Right. And so we talk
9 about decreasing friction costs, but we haven't identified
10 how much that cost is.

11 CHIEF INVESTMENT OFFICER MENG: Right.

12 COMMITTEE MEMBER BROWN: I mean, we assume it's
13 X, but we don't know. And so it would be nice to know,
14 maybe even looking like say in the last year at the deals,
15 that if we had what ones were done.

16 CHIEF INVESTMENT OFFICER MENG: Yeah. So --
17 yeah, sorry. Let me take back. So every time you buy or
18 sell in a company, I want to say three to five percent at
19 least. That's the friction cost, being lawyer fee, the
20 broken-dealer fee, and other transaction fee put together.

21 What I said that we don't know is that I just
22 don't know, hypothetically speaking, how many of them
23 would be churning, how many actually churned. That data
24 we can get. But how many would be churning, you know, or
25 stop churning once we get into Pillar 4. So that's a

1 hypothetical question that I do not know.

2 But on the deal, like with basis, I would say at
3 least three to five percent every time you churn in the
4 portfolio.

5 COMMITTEE MEMBER BROWN: Great. And so can you
6 get us the information on how many? Or, Mr. Chairman,
7 could we maybe get how many deals have churned over the
8 last year? I mean, I'm just trying to see if we can get
9 that.

10 CHIEF INVESTMENT OFFICER MENG: So before we
11 answer question, can we have Sarah -- Sarah Corr.

12 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Sarah
13 Corr, Investment Office.

14 If we're looking over a short period of time, we
15 can do that. For longer periods of time, we wouldn't be
16 table to, but over a short period of time we could.

17 COMMITTEE MEMBER BROWN: Just looking for a
18 number. Four deals, 400 deals, right. Something to help
19 us out.

20 Thank you.

21 And then last week, I had met with -- oh, Sarah,
22 don't go anywhere. Last week, I had met with Dan and had
23 asked about what we really pay in fees in carries.
24 Because when we talk about filler 4 -- Pillar 4, we're
25 always talking about, oh, we're going to beat 2 and 20.

1 The fees might be higher at the beginning, but we're going
2 to beat the 2 and we're going to beat the 20.

3 But in looking at in our closed session
4 materials, we get an update on private equity completed
5 under delegated authority. And when I look at those deals
6 going back -- I went back four years, just sort of
7 randomly checking - just random -- and they were never 2
8 and 20.

9 And so I'd like to make sure that when we talk
10 about the number we're going to beat from our standard
11 commingled private equity, we should know what that real
12 number is. So Dan wasn't sure he could get that for me
13 without either a request to the Chair or maybe from Sarah.

14 CHAIRPERSON SLATON: Just a second.

15 Do you have a -- is this a point of order you're
16 making.

17 COMMITTEE MEMBER JONES: Point of order.

18 CHAIRPERSON SLATON: Okay. All right. Mr.
19 Jones.

20 COMMITTEE MEMBER JONES: We should not refer to
21 information that's provided in closed session. That's
22 all.

23 COMMITTEE MEMBER BROWN: Okay.

24 CHAIRPERSON SLATON: So I think that if you have
25 a request, why don't we defer this request --

1 COMMITTEE MEMBER BROWN: Sure.

2 CHAIRPERSON SLATON: -- this discussion part of
3 it to the closed session. Okay.

4 COMMITTEE MEMBER BROWN: Sure. Okay. So my open
5 session questions then are in -- and so, Mr. Meng, this
6 goes back to you. In talking about the transparency plans
7 for Pillars 3 and 4, you know, we talk about transparency
8 features, but are these aspirations or are these deal
9 points that we've worked out with the prospective
10 managers?

11 CHIEF INVESTMENT OFFICER MENG: So on the -- on
12 the additional transparency, I would say aspiration, but
13 it is fact based aspiration. So we're not that far. We
14 shouldn't be that far off. But again, I would turn to
15 John and Sarah who has been deeply involved with the deal
16 structuring, so they can add more color. But does the
17 additional transparency --

18 CHAIRPERSON SLATON: Again, let me just
19 interrupt.

20 COMMITTEE MEMBER BROWN: Is that closed session
21 too?

22 CHAIRPERSON SLATON: I think again it's closed
23 session too.

24 COMMITTEE MEMBER BROWN: My goodness. Okay.

25 CHAIRPERSON SLATON: Okay. So we're going to

1 have a very robust closed session I assure you.

2 COMMITTEE MEMBER BROWN: Okay. So I won't ask
3 about terms sheets. That's closed session. And then full
4 details on costs, that would be closed session as well?

5 CHAIRPERSON SLATON: Yes, correct.

6 COMMITTEE MEMBER BROWN: Okay. Hold on. I
7 apologize.

8 CHAIRPERSON SLATON: While you're looking, the
9 other issue you raised was the number of deals that churn.
10 I'm not sure I quite understand what we would -- what
11 staff would deliver in that respect that would be timely
12 and doable.

13 INTERIM MANAGING INVESTMENT DIRECTOR CORR: We
14 could look at how many times a company that was sold from
15 one fund that we're an investor in was bought by another
16 fund that we're an investor in.

17 CHAIRPERSON SLATON: Okay. And that's you said
18 over a short time period.

19 INTERIM MANAGING INVESTMENT DIRECTOR CORR: So if
20 you want -- if you wanted to see over a 10-year period, we
21 wouldn't be able to do that, but over a -- if you did the
22 past two or three years, we should be able to do that.

23 CHAIRPERSON SLATON: Okay. Well, let's -- let's
24 deliver the past year or two and see if that information
25 suffices.

1 All right.

2 COMMITTEE MEMBER BROWN: Thank you, Mr. Chair.
3 Yeah, I would -- I had suggested the year. I just wanted
4 to see, because we said we were going to decrease those
5 costs. And I wanted to know is there 20 deals or is there
6 200 deals?

7 CHAIRPERSON SLATON: Yeah. Well, let's do a year
8 and we'll see what that --

9 COMMITTEE MEMBER BROWN: Yeah. I hap --
10 perfectly happy with that.

11 CHAIRPERSON SLATON: Okay.

12 COMMITTEE MEMBER BROWN: And then -- and then
13 with regard to the partnership agreement or the management
14 agreements being a public record, I just think that, again
15 that the best guara -- the best guarantee CalPERS can have
16 that we're not going to get snookered, like we did in
17 other previous investment ownerships, is that -- is that
18 we have these records be public and everybody can look at
19 it, so -- so we can see the crucial parts of the contract.

20 Now, I discussed this in December, and Matt
21 Jacobs acknowledged in open session that there's no legal
22 reason why we can't stipulate that the contract be a
23 public record. And I'm not talking --

24 CHAIRPERSON SLATON: Ms. Brown.

25 COMMITTEE MEMBER BROWN: Yeah.

1 CHAIRPERSON SLATON: Can I just interrupt you for
2 a second. Again, I think that this would be a more
3 productive conversation in closed session, where we could
4 talk about this issue of what can be public and what
5 cannot be public, because then we can have just a more
6 detailed conversation about it, because I want you to have
7 a full hearing to what you're --

8 COMMITTEE MEMBER BROWN: Okay. Sure. Then I'll
9 wait. I'll wait --

10 CHAIRPERSON SLATON: Okay.

11 COMMITTEE MEMBER BROWN: -- for most of my
12 comments till closed session.

13 CHAIRPERSON SLATON: Sure.

14 COMMITTEE MEMBER BROWN: Thank you.

15 CHAIRPERSON SLATON: Okay. Is that -- did you
16 have another one or is that --

17 COMMITTEE MEMBER BROWN: No, that -- no, I think
18 they're all going to be closed according to you.

19 (Laughter.)

20 CHAIRPERSON SLATON: Okay. All right. Thank
21 you.

22 Mr. Rubalcava.

23 COMMITTEE MEMBER RUBALCAVA: Thank you. I want
24 to thank Mr. Ben Meng for his presentation. I
25 particularly am appreciative on chart number -- I think

1 page three of seven when we were talking about the
2 scenarios as to the percentage of private equity, how --
3 one of the results was how -- the impact on the employer
4 contribution rate. And I think I -- my comment is that --
5 it was a sort of leap. I want to make sure if you
6 understand, because the reason it impacts the employer
7 contribution rate is because the -- it would be because
8 of the return would impact the funded level, right?

9 That's correct.

10 And I notice in the next page, four of seven, you
11 do mention the historically improved funded ratio and the
12 increasing will tell -- I think you said in your comments
13 that one of the goals will be a stable contribution rate
14 from the employer. And we heard from some employers
15 today, or representatives of employers.

16 And I think that was my comment that one thing
17 I'm very cognizant of is that, you know, our priority,
18 official duty, is to the beneficiaries -- to the members
19 and the beneficiaries, but we also have a secondary
20 responsibility to minimize employer costs. And I think
21 this is -- trying to seek the maximum returns to increase
22 the funded status is a -- is a -- it's worthwhile and we
23 should do it.

24 And just want to relate in my other hat -- well,
25 not -- we only have one hat. When I used to testify and

1 monitor other '37 Act counties, one of those times and
2 what I always make is we want a prudently funded
3 retirement system, because our members will benefit from
4 it. But on the other hand, we also want a fiscally
5 healthy employer, because that contributes to the local
6 economy, the public services can be able to be provided,
7 and, of course, the -- we don't want to lay off public
8 employees.

9 So I think I really appreciate, Mr. Meng, how you
10 brought that into the discussion. That's something that
11 had been not mentioned before, I think. So we always talk
12 about investment return, discount rate, but we still don't
13 talk about the funded ratio, or the impact on the
14 contribution rate. So I really appreciate you including
15 that.

16 Thank you very much. This was very, very helpful
17 to me.

18 CHIEF INVESTMENT OFFICER MENG: Great. Thank you

19 COMMITTEE MEMBER RUBALCAVA: Thank you, Mr.

20 President.

21 CHAIRPERSON SLATON: Thank you.

22 Controller Yee.

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

24 I wanted to refer to the last slide, which talks about
25 Pillars 3 and 4 implementation, which is kind of our

1 limited roadmap. And the box that still gives me a little
2 bit of pause is the one that speaks to the line
3 governance. And I guess my question around that is at
4 what point are we assured that? And, I mean, to me, the
5 whole -- and first of all, I think this has been a great
6 public presentation, and I appreciated all the testimony.

7 But to me, there are still two issues that really
8 speaks to our responsibility as a Board, and that is at
9 what point is it clear what the governance structure looks
10 like with respect to with whom we're going to be kind of
11 relying upon?

12 And then secondly, are we -- is this Board
13 essentially giving up control? And, you know, and what if
14 it all just decides to go south, because of other
15 extraneous factors? So how are we assured about this line
16 governance and then kind of what does it look like for us
17 going forward in terms of the --

18 CHIEF INVESTMENT OFFICER MENG: So this again we
19 have learned something and we plan to share that with you
20 in closed session.

21 COMMITTEE MEMBER YEE: Okay. So can I -- should
22 I try one more shot at the question.

23 (Laughter.)

24 COMMITTEE MEMBER YEE: No, I mean, this is
25 critical. I mean -- and I'm not trying to put us in a

1 box. But, to me, this is a big decision for this Board.
2 We have a fiduciary responsibility, but we're going to be
3 really placing that responsibility on an outside entity
4 for the most part under these models. So what I'm trying
5 to get at is I guess what's our ongoing responsibility,
6 the Board? I know the staff has its set of
7 responsibilities, and how do we know that that governance
8 is always going to be aligned with us?

9 So those are kind of the two questions. But I
10 think kind of the issue for the public maybe is the
11 question of when does that structure become known? Is
12 that part of when you actually execute the contract or is
13 it something that we know ahead of time?

14 I mean, I think -- I liken this to like making a
15 big investment in buying a house. I don't know that I
16 would be putting down a lot of money on a house without
17 knowing kind of all of the -- all of the parameters
18 around, you know, who I'm doing business with, and, you
19 know, kind of what my ongoing obligation is going to be.

20 So I'll just ask that question. If it's not
21 appropriate now, we can speak about it in closed session.

22 CHAIRPERSON SLATON: Well, you know, you've
23 raised the -- I think this question goes to the heart of
24 this particular item --

25 COMMITTEE MEMBER YEE: Um-hmm.

1 CHAIRPERSON SLATON: -- that we're going to have
2 to ultimately make a decision on.

3 COMMITTEE MEMBER YEE: Um-hmm.

4 CHAIRPERSON SLATON: I think that the -- our
5 ability to have a robust conversation on this very issue
6 really needs to be in closed session. And the question is
7 then what can we report out from this Board? I think we
8 heard earlier today that, you know, we're not going to --
9 the comment was made that CalPERS is going to know more,
10 but the public is not going to know anymore --

11 COMMITTEE MEMBER YEE: Than what is current --

12 CHAIRPERSON SLATON: -- than what we currently
13 get in our public -- in our private equity model today. I
14 think that was --

15 CHIEF INVESTMENT OFFICER MENG: Correct.

16 CHAIRPERSON SLATON: Is that a fair
17 representation --

18 CHIEF INVESTMENT OFFICER MENG: Correct.

19 CHAIRPERSON SLATON: -- of what we heard today.
20 So we have to figure out if we're comfortable --

21 COMMITTEE MEMBER YEE: Comfortable, um-hmm.

22 CHAIRPERSON SLATON: -- with that or not. But in
23 closed session, I think we can find out more about what
24 are we going to know - we meaning CalPERS Board and
25 CalPERS staff - to see if we're -- have a level of comfort

1 with that.

2 COMMITTEE MEMBER YEE: Okay. No, that's fair.
3 That's fair. And we're big boys and girls. We can make
4 that decision.

5 CHAIRPERSON SLATON: Okay.

6 COMMITTEE MEMBER YEE: So my -- there was some
7 reference made in the testimony about following the lead
8 of other pension funds that are already kind of in the
9 space pursuing those models. And what are they?

10 CHIEF INVESTMENT OFFICER MENG: The Canadian,
11 CPPIB, Canadian Public Pension Investment Board, and GIC,
12 the Government Investment Corp of Singapore. So they have
13 deployed a more in-house model. And I would encourage --
14 if the -- encourages that of their governance structure,
15 their composition structure, and also geographic location.

16 COMMITTEE MEMBER YEE: Uh-huh. Okay. All right.
17 That's helpful. Thank you.

18 CHAIRPERSON SLATON: Okay. Treasurer Ma.

19 COMMITTEE MEMBER MA: Thank you very much.

20 So I'm, you know, also leaning -- or continuing
21 Controller Yee's comments that -- and I heard you as well
22 saying, you know, we don't really want to do this
23 in-house, because we're not going to be able to hire the
24 appropriate people. We are not a government -- or a
25 financial center for the investment world. And sometimes

1 people would have to take a big pay cut to come, right, to
2 work here.

3 So when we talk about the governance model, one
4 of the public comments -- commenters asked about this
5 governance model. I was kind of assuming that you were
6 going to reallocate instead of eight percent to private
7 equity, you wanted to now shift 16 percent of the funds to
8 go to private equity.

9 CHIEF INVESTMENT OFFICER MENG: So the 16 percent
10 is just a hypothetical number to show the different
11 scenarios, because currently is eight percent. One end of
12 extreme, we do nothing. We remove everything down to
13 zero.

14 COMMITTEE MEMBER MA: Oh.

15 CHIEF INVESTMENT OFFICER MENG: And the other end
16 I just use 16 as an example. But my overarching principle
17 is that we need more private equity as much as we can have
18 access to, the top -- the good performers, and also as
19 much as our liquidity profile can allow us --

20 COMMITTEE MEMBER MA: Right.

21 CHIEF INVESTMENT OFFICER MENG: -- to -- in
22 private equity. So the 16 percent is just a hypothetical
23 number, but we know that directionality is right. We want
24 more. So how much more?

25 COMMITTEE MEMBER MA: Right. So it could be

1 eight, 16, 20 percent, right?

2 CHIEF INVESTMENT OFFICER MENG: Right. Correct.

3 COMMITTEE MEMBER MA: Like, I'm more comfortable
4 with reallocating -- you know, we've had a successful
5 track record working with the six or seven private equity
6 funds already. But setting up a whole new division with,
7 you know, more people, and trying to attract the top
8 talent I think is going to be difficult. So I'm not
9 leaning toward that direction.

10 And then Meketa also said it would be hard to
11 invest the \$10 billion. Is that how much we're looking at
12 is to invest 10 billion into one fund, or to start a fund?
13 I'm kind of confused.

14 CHIEF INVESTMENT OFFICER MENG: So the \$10
15 billion Meketa was referring to is really for -- is to
16 keep at eight percent. Currently, we cannot even get
17 eight percent. Based on our modeling assumptions, to
18 get -- to keep at eight percent, roughly we would need to
19 deploy 8 -- \$10 billion a year. And currently, we cannot
20 get to the \$10 billion. And that's why we're below the
21 eight percent targets.

22 And that's one of the reasons we're exploring
23 Pillar 3 and 4. Hopefully, it will get us more.

24 COMMITTEE MEMBER MA: Okay. So I -- so I guess
25 Pillars 3 and 4 is this new model, governance model

1 structure?

2 CHIEF INVESTMENT OFFICER MENG: Right. And the
3 new governance model. But to you point, in terms of
4 bringing them in-house now, as I said this morning, that
5 it's about timing and sequencing.

6 COMMITTEE MEMBER MA: Yeah.

7 CHIEF INVESTMENT OFFICER MENG: We do not view
8 that as a viable option now, but we need private equity
9 return now. So -- and the sequencing that we can try out
10 Pillar 3 and Pillar 4. Try out an idea, toss out the
11 idea, and prove the concept before we can explore other
12 options.

13 COMMITTEE MEMBER MA: Okay. I think you know
14 where I'm leaning. Okay. Thanks.

15 MR. HARTT: If I just might answer the question,
16 I'm sorry, since my name came up and Meketa's. So what I
17 was talking about with the \$10 billion a year is that's
18 the comparison to right now their commitment about \$6
19 billion a year.

20 Now, what that is, last year, there was 18
21 investments that in aggregate was \$6 billion a year. What
22 would be a challenge, I believe in the current structure
23 of the program, is to take that from 6 to 10 billion
24 dollars by just making investments in funds. And to take
25 it from it would probably be 18 investments you'd have to

1 take it up to maybe 30. And that would be a lot for this
2 structure to be able to find 30 attractive investments per
3 year that they can invest at that scale.

4 It's not saying that \$10 billion would be
5 invested in one shot to one manager. It's that to go from
6 right now at a pace of \$6 billion and to 18 investments to
7 go to 10 billion to sort of in the 25 to 30 would be very
8 challenging.

9 COMMITTEE MEMBER MA: Okay.

10 MR. HARTT: Is that helpful?

11 COMMITTEE MEMBER MA: It is.

12 MR. HARTT: Okay.

13 COMMITTEE MEMBER MA: So do you support us
14 starting like a private investment fund with our own
15 people and --

16 MR. HARTT: So the idea that the expanding Pillar
17 2, we're talking about more co-investments and
18 secondaries, makes sense. Exploring Pillars 3 and 4,
19 which are these additional opportunities to invest in
20 innovation and long dated, is something to be thought
21 through. And staff is doing a lot of work on that. There
22 is a ways to go. There's a number of questions,
23 governance, who's going -- he was talking about the number
24 of items there that still need to be worked through. And
25 that those are important items to be figured out before

1 there is a large commitment in place.

2 So that's the plan and the process. So it makes
3 sense conceptually that it's an area to be explored.
4 Whether at the end of the day, the right partner and the
5 right governance package to be put together is to be
6 determined. And it's also to be determined if that
7 manager will be successful. There's several hurdles to go
8 through and to be thought about. But it certainly makes
9 sense for CalPERS, its size, its scope, what it can do to
10 explore these options.

11 COMMITTEE MEMBER MA: Okay. Thank you.

12 CHAIRPERSON SLATON: Mr. Miller.

13 COMMITTEE MEMBER MILLER: Yeah. Thank you. I
14 had a couple questions. One, you know, when I think about
15 churn, I don't so much think about one chunk of money that
16 we put in one fund and it gets -- so I really think about,
17 you know, if you have \$10 million and you buy -- in Pillar
18 1, you buy six different things, over 10 years it may
19 change -- it may go through that, you know, maturity,
20 closure, into another fund; maturity, closure -- like
21 three times potentially. And that's where you get
22 effectively a tripling of if you're a 2, 10, you know --
23 so that's kind of the way I think about it with reference
24 to Ms. Brown's question.

25 And so I don't know -- that seems helpful to me

1 when I look at the difference we're talking about in
2 Pillar 3 and 4.

3 I'm really happy to hear some discussion that my
4 kind of pet topic is strategic workforce planning, talent
5 management, and the challenges we've had that I think in
6 the long run are not insurmountable, but they definitely
7 require the crawl, cry, walk, fall, run kind of
8 progression. And I'm really glad to hear, Ben, that you
9 and your team are thinking that way strategically, not
10 just in terms of how we manage the funds, but how we
11 develop a workforce of the future.

12 The final thing is -- and this is where the real
13 question comes in. It seems pretty clear that under our
14 existing delegations, we can do 1 and 2. It seems to me
15 that if not the exact model, but some aspects of the long
16 hold, the horizon, it seems like we could -- you could --
17 you and your team could be doing much of that either now
18 or even looking at, you know, newer market instruments
19 that are long-hold funds.

20 Those -- so it really seems to me that as we
21 stage the deployment and decisions and stuff, my focus is
22 really on the innovation, because that introduces these
23 elements that I still don't quite understand, and as
24 Controller Yee mentioned, you know, we don't have all the
25 governance stuff to deliberate and look at yet. So the

1 devil is in the details there. And I'm going to be
2 really -- I think it might take a little longer before we
3 get to a point where I'm comfortable with a decision
4 there. But I wouldn't want to hold the team up in
5 developing things to put in front of us, if we could, you
6 know, kind of rev up. Because I do agree, I think we need
7 more PE and we need it now.

8 Thank you.

9 CHAIRPERSON SLATON: Mr. Perez.

10 COMMITTEE MEMBER PEREZ: I apologize if this has
11 been asked and answered already. Why -- why are we
12 looking at an LLC as opposed to -- if everything I'm
13 reading is -- if I'm interpreting it correctly, there's
14 already protections with the general partnership limited
15 partnership?

16 CHIEF INVESTMENT OFFICER MENG: Okay. So I can
17 answer a little bit, and then I will turn it to our legal.
18 So the LLC is really the limited partner -- a limited
19 liability is really protecting us -- protecting us as the
20 LP, protect our interest. So indemnify us from -- from
21 some liabilities. So that's the set up, the structure.

22 INVESTMENT DIRECTOR COLE: I'll add to that.
23 Excuse me. John Cole, staff. And Matt may chose to come
24 up. But it's a legal question, not an economic question.

25 And in our consideration of the alternatives

1 between a traditional GP/LP or an LLC structure, the
2 considered judgment of is -- it was relatively comparable,
3 and therefore not a clear one over the other. But the
4 liabilities protection incrementally that is provided in
5 an LLC is superior to that in a general partnership LP
6 arrangement for us. So we were looking for in the LLC, as
7 we've learned through experience in our real assets area,
8 that the -- that legal structure was slightly favorable
9 for us.

10 Fair?

11 GENERAL COUNSEL JACOBS: Yeah, I can't improve on
12 that. Basically, John nailed it.

13 (Laughter.)

14 COMMITTEE MEMBER PEREZ: You just passed the bar.

15 (Laughter.)

16 GENERAL COUNSEL JACOBS: He should have passed
17 the bar. I'll give him a bar license.

18 (Laughter.)

19 CHAIRPERSON SLATON: Okay.

20 All right. Ms. Taylor.

21 COMMITTEE MEMBER TAYLOR: Yes. Thank you, Mr.
22 Chair. I just want to tell you that as we went -- as you
23 went through your explanation of this -- and I've been
24 talking to folks week after week after week to get a
25 clearer understanding, I just want to compliment you on

1 making me feel like I wasn't as stupid as I thought I was.

2 (Laughter.)

3 COMMITTEE MEMBER TAYLOR: Because it just seemed
4 like we were -- there was so much talking around the
5 issue, and you just sort of dove right into the issue.
6 And it just made it so much clearer for me.

7 And the one slide that made that more clear than
8 anything is transparency to CalPERS -- number 6,
9 transparency to CalPERS, transparency to public. If we're
10 doing public -- private equity, then, of course, we're not
11 going to have transparency to the public. But given what
12 we will have here available to us as fiduciaries enables
13 us to make the best decisions possible.

14 And then on top of that, I just feel that we
15 have -- we have to take into account that at seven percent
16 target rate, we are not going to be able to make that
17 without private equity. And I want transparency. I want
18 to see those fees more transparent. And I want to make
19 sure that our governance structure is akin to what we
20 want, right? Our Investment Beliefs are included and that
21 our ESG strategies are included. And I think the only
22 way -- you can't do that with regular private equity.

23 CHIEF INVESTMENT OFFICER MENG: Correct.
24 Correct.

25 COMMITTEE MEMBER TAYLOR: And I think the only

1 way we're going to be able to change that narrative where
2 we're seeing companies get bought -- you know, stripped
3 and sold is if we're doing something different.

4 CHIEF INVESTMENT OFFICER MENG: Right.

5 COMMITTEE MEMBER TAYLOR: So I think that we are
6 in a position now where we have to say, okay, we're not
7 going to let, you know -- say no to this, because then our
8 employers will owe more money. And we have to reduce the
9 rate of return again. And I just -- I can't go to my
10 constituents and say that.

11 So I look forward to hearing more in closed
12 session. But again, the clarity that I got in this
13 presentation, I'm very thankful for. Thank you very much.

14 CHIEF INVESTMENT OFFICER MENG: Thank you.

15 If I may say one thing, since we're on slide 6,
16 so this slide actually apply to Controller Yee's question
17 as well. So the improved transparency -- improved
18 transparency to us is also improved control, without going
19 too much details until we -- until the closed session.
20 But this slide applies that compared to the traditional
21 conventional model we're doing right now the commingled
22 fund, Pillar 3 and Pillar 4 will have more control, more
23 governance, more control, not less. Just like
24 transparency, we'll have more transparency to CalPERS for
25 the benefit of the employers and beneficiaries.

1 CHAIRPERSON SLATON: Okay. Ms. Pasquil Rogers.

2 COMMITTEE MEMBER PASQUIL ROGERS: Ben, thank you.
3 Thank you so much for your presentation. Being one of the
4 new kids on the block, I could tell it was a little
5 cloudy. Might still be cloudy for me. But one thing I do
6 know and that is that, and correct me if I'm wrong, this
7 will provide you and the team additional tools to get to
8 seven percent. You are not going to just go out there,
9 correct, and just willy-nilly, you know, do something that
10 you would have to come back -- you and the whole team
11 would have to come back and say we really messed up?

12 You, given this, correct, are going to go through
13 steps to make sure, yes, transparency, but, you know, is
14 this the best decision for this body, for the people that
15 rely on us, and those that come after us, am I correct?

16 CHIEF INVESTMENT OFFICER MENG: Exactly.

17 COMMITTEE MEMBER PASQUIL ROGERS: It's not going
18 to happen over night?

19 CHIEF INVESTMENT OFFICER MENG: Exactly. And as
20 you said --

21 COMMITTEE MEMBER PASQUIL ROGERS: This is the
22 next step?

23 CHIEF INVESTMENT OFFICER MENG: Yes. Exactly as
24 you said that, and also as mentioned early on, that I'm
25 very glad to see the staff has already adopt a trial and

1 learn with no specific timeline, no specific outcome in
2 mind. And the staff have all the reason and will continue
3 to do so -- to do so in a most risk-prudent way and most
4 risk-intelligent way.

5 COMMITTEE MEMBER PASQUIL ROGERS: Thank you.

6 CHAIRPERSON SLATON: Thank you.

7 I don't have anymore requests to speak. I guess
8 my -- oh, wait a minute. No, she's --

9 COMMITTEE MEMBER PASQUIL ROGERS: Sorry.

10 CHAIRPERSON SLATON: That's all right.

11 I guess my final comment is, you know, this is --
12 this is the definition of a partnership. And it's a
13 partnership between the staff and the Board trying to
14 figure out how to navigate through this to arrive at the
15 best decision on behalf of our members, and our employers,
16 and the State of California.

17 So that's the effort -- that journey that we're
18 on. And I think this dialogue has been good. We'll
19 continue to it in closed session where we can dig more
20 into details.

21 CHIEF INVESTMENT OFFICER MENG: Yes.

22 CHAIRPERSON SLATON: But I just want to
23 compliment the work so far and this dialogue that we're
24 all having, which I think is very positive.

25 So with that, that completes 7c.

1 We'll move to Item 8, which is Summary of
2 Committee Direction.

3 CHIEF INVESTMENT OFFICER MENG: Okay. Mr. Chair,
4 so I jotted down a number of follow-up items.

5 One from Mr. Perez. In April, the staff will
6 come back with a high level policy review of divestment.
7 And this is not a deep dive and not about making a
8 decision. It's particularly for the benefit of new Board
9 members --

10 CHAIRPERSON SLATON: Um-hmm.

11 CHIEF INVESTMENT OFFICER MENG: -- what is our
12 Divestment Policy. So that's in April.

13 And in March, the Controller's office asked for
14 an update on carbon pricing. So, in March, our ESG team,
15 Sustainable Investment team, will come back next month
16 with a presentation on that.

17 And Ms. Brown asked for the PE co-investment
18 study. So once they have the study internally, we write
19 it out, and we will find an appropriate opportunity to
20 bring that study back to this body.

21 And Treasurer Ma asked for the most recent
22 program review of the real assets, particularly real
23 estate.

24 And then Controller Yee asked for the roles and
25 purpose of each asset class.

1 Mr. Jones -- Mr. Jones asked for a good
2 infrastructure partners to come to talk to us how they
3 make infrastructure investment decisions, and what they
4 view of the infrastructure market opportunities.

5 And again, Treasurer Ma asked for part of the
6 John Rothfield's presentation, slide 16, with more labels.
7 So we'll come back to you with updated chart from John
8 Rothfield's presentation.

9 And then last one is Ms. Brown asked for an
10 estimate of the churning cost and the direction of the
11 past year. So we'll come back with our best estimate on
12 that.

13 So I think that's all I have, unless I missed
14 anything.

15 CHAIRPERSON SLATON: I think -- I think we have
16 covered it.

17 CHIEF INVESTMENT OFFICER MENG: Great. Thank
18 you.

19 CHAIRPERSON SLATON: Thank you very much. We'll
20 move now to -- move now to public comment.

21 And I have one request to speak from Ms.
22 Foldman[SIC]. And if you would come up to the microphone,
23 you'll have three minutes.

24 MS. RILEY: Hi. My name is Kate Riley, and I'm a
25 retired member of CalPERS. I worked for over a quarter of

1 a century at the California State Assembly and have
2 retired as of 10 years ago.

3 I just wanted to speak as a -- as a person who
4 has -- you know, living -- basically, living off of the
5 fund. I'm disturbed that my money is being used -- is
6 being used to help these companies -- two companies
7 specifically, the GEO Group and CoreCivic that are
8 involved in the detention of people.

9 And I think what's disturbing to me, well on a
10 personal level, is that it seems like for this fund to be
11 invested in these companies is really counter to what the
12 rest of the state is doing. I think if you looked at your
13 own members, if you looked at the public, you would find
14 that people do not like this program. And so I just --
15 I'm trying to understand. You guys have been such leaders
16 in the past when I first came to work for the Legislature.
17 CalPERS was divesting from South Africa, and you were one
18 of the leaders nationwide in that.

19 And so that's why it seems surprising to me that
20 this has not become more of an issue. I am not an expert,
21 so I'm not -- please don't ask me technical questions.
22 But I just want to say as a member, I find it very
23 disturbing.

24 Also, I know that the two companies in particular
25 that our request is that they -- that you divest from Core

1 Group -- I mean, GEO Group and CoreCivic. But the other
2 companies are engaged in the detention of children. And
3 that -- that is like particularly egregious.

4 And so I'm just asking the Board to take that
5 seriously and to direct your staff to -- to prepare
6 proposals that will help us divest from this pretty
7 revolting set of businesses.

8 Thank you.

9 CHAIRPERSON SLATON: Thank you, ma'am. Yes.

10 MS. GOLDMAN: Perfect.

11 CHAIRPERSON SLATON: Yes, you're on, Ms.

12 Foldman[SIC].

13 MS. GOLDMAN: My name is Emily Claire Goldman.
14 I'm a human rights lawyer and the Founder and Director of
15 Educators for Migrant Justice, as some of you may know.

16 I am speaking today on behalf of CalPERS members
17 who are outraged that their retirement savings are
18 providing financial support to companies aiding and
19 abetting crimes against humanity, including CoreCivic, GEO
20 Group, General Dynamics, and United Rentals.

21 While CalSTRS voted to divest from for-profit
22 prisons, CoreCivic and GEO Group, in November, CalPERS has
23 yet to provide -- to my knowledge, provide an update on
24 its ongoing engagement with these companies. It's worth
25 asking what CalPERS hopes to achieve through corporate

1 engagement with companies that rely on deliberate
2 understaffing, medical neglect, and forced labor to cut
3 corners for profitability, particularly given that
4 CoreCivic and GEO Group have failed to take steps to
5 remedy issues at their facilities despite dozen of
6 lawsuits, fines from government agencies, as well as
7 numerous scathing reports from the Office of the Inspector
8 General, which is ICE's oversight body.

9 I will remind the Board that CalPERS oversees --
10 as you all know, oversees \$360 billion and currently has a
11 \$11.4 billion combined in these two companies. While
12 CalSTRS oversees 219 billion, and had 3 -- 13.7 billion
13 invested in CoreCivic and GEO. At the time that they
14 determined that owning private prison companies is de
15 minimis to the overall portfolio return and tracking
16 error, meaning that it would be consistent with your
17 fiduciary duty to divest.

18 From a purely financial perspective, these
19 companies have not performed well. CoreCivic's stock
20 price has dropped nearly 50 percent over the past four
21 years, and GEO Group has dropped, I believe, nearly 20.
22 Their dividends are also equally as horrible. And I know
23 that you are all very concerned about volatility in terms
24 of returns, and these could not be more volatile.

25 On the specific issue of family separation and

1 detention, CoreCivic and GEO Group have both maintained
2 that they are not detaining separated migrant children or
3 their families, but are now actively fighting shareholder
4 resolutions that would require them to adopt policies to
5 that effect.

6 In letters to the SEC, both companies raised
7 several objections to the shareholder resolutions with --
8 which they said were vague, misleading, and impossible to
9 implement. GEO Group specifically additionally stated
10 that they do not determine who is assigned to their case,
11 nor do they have any knowledge of their specific cases or
12 circumstances.

13 And this response really begs the question if GEO
14 Group doesn't have knowledge of specific cases or
15 circumstances of those in its custody, how can they
16 provide any assurance that they aren't holding separated
17 children or their parents in their facilities. They
18 can't.

19 GEO isn't alone in its attempts to mislead
20 investors and the general public through what I consider
21 nothing short of blatant lies. And I know my time is
22 about to expire, so can I take the rest her 45 seconds?

23 CHAIRPERSON SLATON: Just please complete your
24 thoughts.

25 MS. GOLDMAN: So the Chief Investment Officer's

1 coverage of CalPERS' December Board meeting included a
2 statement from CoreCivic that reads, and I quote, "Our ICE
3 contracted facilities are contractually required and held
4 accountable to federal performance-based national
5 detention standards".

6 Yet, several weeks ago, the Office of the
7 Inspector General, ICE's oversight body, released a report
8 titled, again I quote, "ICE does not fully use contracting
9 tools to hold detention facilities..." --

10 CHAIRPERSON SLATON: Ma'am, you do need to
11 complete --

12 MS. GOLDMAN: -- "...contractors
13 accountable..." --

14 CHAIRPERSON SLATON: You need to complete your
15 remarks, please.

16 MS. GOLDMAN: This is the last sentence. "ICE
17 does not fully use contracting tools to hold detention
18 facility contractors accountable for failing to meet
19 performance standards".

20 CHAIRPERSON SLATON: Okay. Thank you for your
21 comments.

22 MS. GOLDMAN: Thank you for your time.

23 CHAIRPERSON SLATON: All right. I think we've
24 completed the open session agenda. And so we will
25 reconvene in closed session in 10 minutes.

1 (Thereupon California Public Employees'
2 Retirement System, Investment Committee
3 meeting open session adjourned at 2:43 p.m.)
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C E R T I F I C A T E O F R E P O R T E R

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

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

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

IN WITNESS WHEREOF, I have hereunto set my hand this 23rd day of February, 2019.



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