

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

CALPERS AUDITORIUM
LINCOLN PLAZA NORTH
400 P STREET
SACRAMENTO, CALIFORNIA

MONDAY, SEPTEMBER 19, 2022

8:51 A.M.

JAMES F. PETERS, CSR
CERTIFIED SHORTHAND REPORTER
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APPEARANCES

COMMITTEE MEMBERS:

David Miller, Chairperson

Rob Feckner, Vice Chairperson

Fiona Ma, represented by Frank Ruffino

Lisa Middleton

Eraina Ortega

Jose Luis Pacheco

Theresa Taylor

Mullissa Willette

Gail Willis, PhD

Betty Yee

STAFF:

Marcie Frost, Chief Executive Officer

Nicole Musicco, Chief Investment Officer

Matt Jacobs, General Counsel

Dan Bienvenue, Deputy Chief Investment Officer

Michael Cohen, Interim Chief Operating Investment Officer

Sarah Corr, Managing Investment Director, Real Assets

Amy Deming, Investment Director

Simiso Nzima, Managing Investment Director, Global Equity

Arnie Phillips, Managing Investment Director, Global Fixed
Income

Lauren Rosborough Watt, Investment Director

APPEARANCES CONTINUED

STAFF:

Greg Ruiz, Managing Investment Director, Private Equity

ALSO PRESENT:

Tim Behrens, California State Retirees

Terry Brennand, Service Employees International Union
California

Rose Dean, Wilshire Associates

Christy Fields, Meketa Investment Group

Jerry Fountain

Alyssa Giachino, Private Equity Stakeholder Project

Steve Hartt, Meketa Investment Group

Ali Kazemi, Wilshire Associates

Steve McCourt, Meketa Investment Group

Tom Toth, Wilshire Associates

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CHAIRPERSON MILLER: Good morning, everybody.

I'd like to call the Investment Committee to order.

There we go. And the first order of business is our call to order and roll call, please.

COMMITTEE SECRETARY: David Miller?

CHAIRPERSON MILLER: Here.

COMMITTEE SECRETARY: Rob Feckner?

VICE CHAIRPERSON FECKNER: Good morning.

COMMITTEE SECRETARY: Frank Ruffino for Fiona Ma?

ACTING COMMITTEE MEMBER RUFFINO: Present.

COMMITTEE SECRETARY: Lisa Middleton?

COMMITTEE MEMBER MIDDLETON: Present.

COMMITTEE SECRETARY: Eraina Ortega?

COMMITTEE MEMBER ORTEGA: Here.

COMMITTEE SECRETARY: Jose Luis Pacheco?

COMMITTEE MEMBER PACHECO: Present.

COMMITTEE SECRETARY: Ramon Rubalcava?

CHAIRPERSON MILLER: Excused

COMMITTEE SECRETARY: Theresa Taylor?

COMMITTEE MEMBER TAYLOR: Here.

COMMITTEE SECRETARY: Mullissa Willette?

COMMITTEE MEMBER WILLETTE: Here.

COMMITTEE SECRETARY: Gail Willis?

COMMITTEE MEMBER WILLIS: Here.

1 COMMITTEE SECRETARY: Betty Yee?

2 CHAIRPERSON MILLER: Not sure yet.

3 Okay. Thank you. We'll move on to the Executive
4 Report from our Chief Investment Officer.

5 Okay. Dan --

6 COMMITTEE MEMBER TAYLOR: Christina.

7 CHAIRPERSON MILLER: Oh. We'll note --

8 COMMITTEE MEMBER TAYLOR: Call your roll.

9 COMMITTEE SECRETARY: Betty Yee?

10 COMMITTEE MEMBER YEE: Here.

11 CHAIRPERSON MILLER: Okay. All accounted for.

12 So we'll go forward, Dan.

13 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Yeah,
14 Mr. Chair. Nicole, I think is just hung for a minute.

15 CHAIRPERSON MILLER: Oh, okay.

16 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: If we
17 can wait until she -- she gets here to get kick us off.

18 CHAIRPERSON MILLER: Yeah. Yeah. No problem.

19 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Thank
20 you, Mr. Chair.

21 Good to see everybody here, and some familiar
22 faces. Everybody is enjoying this nice cool weather.

23 CHIEF INVESTMENT OFFICER MUSICCO: Good morning,
24 everyone.

25 CHAIRPERSON MILLER: Okay. You have the floor.

1 CHIEF INVESTMENT OFFICER MUSICCO: So I've got
2 the floor now. All right. Good stuff.

3 Good morning. Thank you all very much. I was
4 looking forward to being here. I know my last go-around,
5 I had COVID, so I'm super happy to be here, and healthy,
6 and in person. So thank you.

7 I know we have a really thick agenda today, which
8 the team has been preparing for for some time. And we're
9 looking forward to really just having an open dialogue
10 today. Really hoping to take a look back at history, take
11 a look at where we've been, what we've done, maybe some
12 decision we've made that we would like to reflect upon.
13 Certainly try to give some perspective on where we're
14 going.

15 And so you'll see today with the agenda, we've
16 tried to -- we've added an additional piece, which is the
17 performance review over the last 10 years, so we'll take
18 some time to walk through that. Part of that look-back,
19 we will come to you with some suggestions, some requests,
20 and a first read of some policy changes. We're then going
21 to do the typical program review that historically we
22 would have done all in one package. That's part of 5C.
23 And really again the intent here is to make sure that we
24 all walk away giving you the understanding that we're here
25 to be held accountable for performance. We're here to

1 make sure that we are all in this -- working towards the
2 same goal of paying pensions and benefits. And we're
3 going to have a real humble dialogue today with you. So
4 we're looking forward to doing that.

5 So I think first up, do we -- do I go right into
6 the performance review at this point or do we have to go
7 through -- I turn back to the Chair. Okay. I'll turn is
8 back. Thank you.

9 CHAIRPERSON MILLER: Thank you.

10 Yeah. We have a very full agenda today and so
11 we'll start with action consent items and we vote on
12 these -- we'll vote on them together, I guess.

13 Does anybody --

14 VICE CHAIRPERSON FECKNER: Move approval.

15 COMMITTEE MEMBER PACHECO: Move approval.

16 CHAIRPERSON MILLER: Okay. Moved and seconded.

17 Any discussion the motion.

18 All in favor of approving that action consent
19 items, say aye?

20 (Ayes.)

21 COMMITTEE SECRETARY: Mr. Chair, we have to do a
22 roll call vote, since we have a remote.

23 CHAIRPERSON MILLER: Roll call vote. Oh, Okay.

24 COMMITTEE SECRETARY: Rob Feckner?

25 VICE CHAIRPERSON FECKNER: Aye.

1 COMMITTEE SECRETARY: Frank Ruffino for Fiona Ma?

2 ACTING COMMITTEE MEMBER RUFFINO: Aye.

3 COMMITTEE SECRETARY: Lisa Middleton?

4 COMMITTEE MEMBER MIDDLETON: Aye.

5 COMMITTEE SECRETARY: Eraina Ortega?

6 COMMITTEE MEMBER ORTEGA: Aye.

7 COMMITTEE SECRETARY: Oh, sorry.

8 Jose Luis Pacheco?

9 COMMITTEE MEMBER PACHECO: Aye.

10 COMMITTEE SECRETARY: Ramon Rubalcava?

11 CHAIRPERSON MILLER: Excused.

12 COMMITTEE SECRETARY: Theresa Taylor?

13 COMMITTEE MEMBER TAYLOR: Aye.

14 COMMITTEE SECRETARY: Mullissa Willette?

15 COMMITTEE MEMBER WILLETTE: Aye.

16 COMMITTEE SECRETARY: Dr. Gail Willis?

17 COMMITTEE MEMBER WILLIS: Aye.

18 COMMITTEE SECRETARY: And Betty Yee?

19 COMMITTEE MEMBER YEE: Aye.

20 CHAIRPERSON MILLER: Okay. The ayes have it.

21 The motion passes.

22 Move on to Item number 4, which -- can we advance
23 the -- there we go -- information consent items. I have
24 no requests to pull anything, so we will move on to Item
25 5.

1 COMMITTEE MEMBER TAYLOR: Right at the top.
2 There you go.

3 CHAIRPERSON MILLER: Okay. Mullissa. Okay.
4 There you go.

5 COMMITTEE MEMBER WILLETTE: Is this the right --
6 Okay. Oh. Thank you so much. So on the draft agenda for
7 the November Investment Committee meeting I know we have
8 the responsible contractor program is listed as a
9 information consent item. And it's -- I think it's a
10 signature part of the CalPERS program that's establishing
11 our ESG principles and values. And so I think we would
12 like -- I would like to see this as a full information
13 item. It's been historically. And I'd appreciate a full
14 report as this information is really response -- important
15 to our work.

16 CHAIRPERSON MILLER: Yeah.

17 CHIEF EXECUTIVE OFFICER FROST: Yes. Thank you,
18 Ms. Willette, we are moving that from an information
19 consent to an information item for November.

20 COMMITTEE MEMBER WILLETTE: Thank you.

21 CHAIRPERSON MILLER: Okay. So -- so consider
22 that a proactive move by staff, otherwise it would be
23 Committee direction.

24 Okay. No further discussion on that. These are
25 information consent items. So we can move on to our

1 information agenda items. And with that, we'll start with
2 the investment performance. And so I'll turn it back over
3 to Nicole and Dan.

4 (Thereupon a slide presentation.)

5 CHIEF INVESTMENT OFFICER MUSICCO: Great. Thanks
6 very much. Unfortunately, I'm having some technical
7 difficulty with my access to Diligent, so I'll have to be
8 looking up and down at you, if you don't mind. I've got
9 my talking points in front of me though. Technology never
10 fails.

11 So thanks again. As we mentioned, I know
12 typically that we do the performance presentation within
13 the semiannual trust level review, but we felt just given
14 where -- you know, we -- we're in such a unique year
15 related to the markets and our performance, so we wanted
16 to have this opportunity to do a proper deep dive and
17 really looking at over the past 10 years.

18 We'll still -- thank you.

19 We'll still certainly have an opportunity to dig
20 further into our performance one we get into the trust
21 level review, but this is a unique item for us.

22 So if we turn to slide 2, the agenda, please.

23 --o0o--

24 CHIEF INVESTMENT OFFICER MUSICCO: We'll look at
25 our -- we're going to take a look at -- we're working

1 This allocation -- this asset allocation as of June 30th,
2 so it would reflect the prior asset allocation. But it
3 just gives you a sense going forward on how we will be
4 keeping a close eye on many of these metrics. As you
5 know, our ending market value is down almost 30 billion
6 for June versus June 30th, '21, and, you know, closer to
7 down 60 billion towards the end of the year. And so
8 that's, you know, a big piece of why we're so focused
9 today on making sure we really dig into what we've been up
10 to in the last decade or so.

11 I think it's important for us to reflect on our
12 absolute returns this year, obviously down, being a
13 negative 6.1 percent, which is the first negative fiscal
14 year return since '09. Cumulatively, the longer-term PERF
15 performance of 7.7 percent over the 10-year period. While
16 we marginally exceeded the actuarial rate of return, we
17 are examining our decisions on what we could have done
18 better and -- over that period of time. And that's really
19 the focus of today's discussion.

20 From a five-year -- I'll just bring your eyes to
21 the realized five-year information ratio. We're not going
22 to get to much into some of the more -- the nuances of
23 Sharpe ratio or information ratio today, but as the CIO I
24 would tell you when I look at that number, you know, it's
25 frustrating or disappointing. It tells me that we're just

1 not getting the return on risk that we should be getting.
2 And so part of my conversation today with all of you is
3 what we're going to be doing differently and how we're
4 going to be spending our time and resources to make sure
5 we can improve upon that.

6 If we can go to the next slide, please.

7 --o0o--

8 CHIEF INVESTMENT OFFICER MUSICCO: So today we'll
9 probably go through - I counted - it's about 12 points, 12
10 areas of focus. Maybe it's the top 10, maybe it's the top
11 12, but really it's the bullet points and we'll leave time
12 at the end. But the first -- the first area we should
13 look at is these cone charts are really helping us in a
14 graph really see clearly that our returns have been just
15 frankly lower than expectation.

16 You see the blue line. Really, you want to see
17 that line between the orange and the upper part of that
18 cone. And it -- and it just hasn't been. We would have
19 been -- we would have expected from the period of July
20 1st, '14 to the end of '18 to have an annualized return of
21 7.6, which you see there in -- in the expected column,
22 whereas we realized 5.6, so a difference of two percent.

23 Really, the portfolio priorities during that
24 time, from what I could see, what I've been told was
25 really more of a product of trying to create a portfolio

1 with less drawdown risk. But with that decision, it means
2 that we really missed out on the ten-year ear of growth.
3 And so it's something for us to be reflecting on.

4 From the period of July 1st, '18 to most recent
5 fiscal year-end of June 30th, 2020, we had an expected
6 annual return of seven percent and realized -- we produce
7 a return of 6.2 percent. Again, similar observations. We
8 were constructing a portfolio to limit downside. And with
9 that, we missed out on a big chunk of growth.

10 Next slide, please.

11 --o0o--

12 CHIEF INVESTMENT OFFICER MUSICCO: So here we try
13 to summarize, really get into the heart of where our
14 performance has differed. Again, this analysis, this peer
15 group if you will, is a compilation of larger plans, over
16 10 billion. It's kind of a hypothetical portfolio that we
17 pull together. But the messaging with this hypothetical
18 portfolio is pretty consistent as far as, you know,
19 where -- where we're steered wrong or what we could have
20 potentially done different. Really, the punch line is
21 you'll see the vast majority of our underperformance. So
22 if you look at the far right of the ten-year us coming in
23 at the 7.6 percent versus a peer group of 8.9, big driving
24 factor of that would have been around our private markets
25 program, or lack thereof. And we'll get into the weeds on

1 CHIEF INVESTMENT OFFICER MUSICCO: The next area
2 we take a look at is our Real Estate Program, and, you
3 know, we're have we -- where have we been and where are we
4 going as far as that.

5 If you think about how our program is broken down
6 in real estate, we have core program, we have
7 opportunistic program, a value-add program. The core
8 programs are typically investments that are characterized
9 by low leverage with stable and predictable income. For
10 value-add, those are really investments where you -- where
11 returns are expected to come from the execution of
12 renovations, for example, renovation projects. And
13 opportunist -- opportunistic is really the riskiest area
14 that we can invest within the real estate spectrum. And
15 it also offers the -- a chance for the highest returns.

16 So our observations here is really given the
17 allocation to the higher risk investments that we had, we
18 really did expect to be compensated more than we were.
19 And so that certainly hurt us.

20 For our core outperformance as certainly due to
21 the strong performance of our multi-family and our
22 industrial and data center programs. And we are also
23 underweight to office. But overall, we were -- we were
24 definitely hurt by the fact that we were not paid for the
25 risk we are taking in our Opportunistic Program.

1 In recent years, the good news is, is that our
2 program has transitioned back to core. And it's currently
3 more than 90 percent of our Real Estate Program. And
4 our -- there's been a lack of recent commitments to the
5 value-add and opportunistic programs, which has also led
6 to underperformance in those strategies as the returns are
7 dominated by legacy investments in emerging markets. And
8 so we've had a lot of work to be done in our opportunistic
9 program taking a look at some of the underperforming
10 commingled program -- commingled fund programs for
11 example. So we're taking a look at that, taking a look at
12 the programs or the partnerships that we would have had in
13 emerging markets.

14 And so these are certainly areas where, you know,
15 we've had to step back and say how can we reposition the
16 program, which is what's been done in recent careers. The
17 program has been more repositioned to core, and so we'll
18 continue to look -- to take a -- a stronger look at what's
19 going on there.

20 Next slide, please.

21 --o0o--

22 CHIEF INVESTMENT OFFICER MUSICCO: The next area
23 that we've got some lesson learn -- lessons learned on is
24 our decision to go global for diversification and growth,
25 really dating back to 2008. So rather than having a home

1 country bias, like many of our peers would have had, we
2 did not have that bias. We did not go back to that until
3 very recently. And so therefore that decision just
4 frankly just didn't work -- work out as we had hoped. We
5 really should have had more of a home country bias in
6 hindsight. And hindsight, of course, we say is 20/20, but
7 that's really been where we've had a detraction from
8 returns, because of that lack of home country bias versus
9 our peers.

10 So again, just one of the many building blocks.
11 And that was one of the messages I wanted to hopefully
12 tease out today is there was no one magic negative bullet.
13 There's -- it's really a combination of a number 24 of
14 just different decisions, different market dynamics. So
15 hopefully, through the series of, you know, 10 to 12 bits
16 that I'm uncovering or discussing today, the message
17 should really be it's a combination of a number of things,
18 the punch line being it's been mostly in the private
19 markets area. But certainly not having a home country
20 bias is another example of where, you know, we need to
21 reflect upon that going forward.

22 Slide nine or next slide, please.

23 --o0o--

24 CHIEF INVESTMENT OFFICER MUSICCO: So again, In a
25 similar vein, it's certainly not the reason. It's one of

1 that we were -- that we've really been impacted by that
2 longer duration approach that we've been using. So it's
3 certainly an area that we are looking into now, given
4 where we are with rates and inflation.

5 Next page, please.

6 --o0o--

7 CHIEF INVESTMENT OFFICER MUSICCO: So deployment
8 into active strategies. This is -- this is one that's
9 really interesting in the chart that -- you know,
10 sometimes these charts really jump out at you. Clearly,
11 for -- for an extended period of time, we had a number of
12 active programs that just were not working out, so the
13 decision was made in 2019 to take a really deep dive
14 review of those programs. And it was decided to reduce
15 active risk within -- within the programs. And so you can
16 see that clearly. So as a result we really did move
17 capital back to more of a benchmark exposure.

18 And so back to one of those earlier slides,
19 you'll see over the course of a number of a few years now
20 we've really not been using our active risk budget.
21 That's a topic that I really want to get into more deeply
22 in our next Board meeting. I'd like to take some time to
23 really talk about my strategy or my hopes for what we're
24 going to do with active risk in general, how we change our
25 active risk culture, how we think about what programs we

1 should be layering in.

2 But the message again today in this 10-year
3 lookback is that this is certainly one of the pieces to
4 the puzzle is the fact that we've pulled out of some of
5 these active strategies, most of which were not
6 performing, but in general, we've just not been using our
7 active risk budget to the extent that we -- that we could
8 be.

9 Next slide, please.

10 --o0o--

11 CHIEF INVESTMENT OFFICER MUSICCO: This is just
12 to give you, you know, more just a better understanding or
13 the justification why at the time we would have pulled out
14 of active management. Our programs were just not
15 consistently adding value. Again, similar to those
16 earlier cone charts, you'd like to see that blue line
17 above the orange -- the orange hypothetical excess return
18 line. That would have been our expected return on those
19 active programs. And as you can see, we were -- we've
20 been experiencing much less than that. And so putting a
21 real focus on those active programs is certainly an area
22 for value -- value creation potential that we'll be
23 spending a bunch of time on going forward.

24 Next slide, please.

25 --o0o--

1 CHIEF INVESTMENT OFFICER MUSICCO: So part of
2 our -- you know, the top 10, 12 -- to 12 reasons, you
3 know, I just wanted to highlight just this whole idea of
4 consistency in strategy, just remembering that we're
5 long-term patient investors. It doesn't serve us to be
6 coming in and out of programs. We have the luxury as
7 long-term patient pool of capital with -- that has ample
8 liquidity to be patient and not to be taking, you know,
9 drastic decisions to completely pull out of asset classes,
10 for example. And again, I just say that with the benefit
11 of having a lens and looking historically. But as I
12 mentioned in the outset, pulling out of that -- the
13 private market program is probably what's hurt us the
14 most. And this chart was just simply to demonstrate we've
15 had a number of start and stops. And so we really need to
16 be thought.

17 A lot of this really, in my mind, boils down to
18 taking us -- a much closer look at the decision --
19 decision-making and our -- our model for decision-making
20 our governance model for decision-making. And so you
21 would have heard me say in those first couple meetings we
22 had together that after my walking tour was completed, I
23 really focused mostly on our governance structure. And
24 I'll get into the weeds a little bit on how we hope that
25 we've improved upon or we can avoid having these start and

1 stop decisions without making sure we're thoroughly
2 vetting the unintended consequences as well as
3 consequences of doing so.

4 And so this was -- this chart is just simply
5 again to demonstrate one of the pieces to this puzzle is
6 that we had frequent changes in strategies, and that
7 certainly detracted from our -- our return profile.

8 Next slide, please.

9 --o0o--

10 CHIEF INVESTMENT OFFICER MUSICCO: So in summary,
11 these are the areas that we are going to be super focused
12 on going forward. We'll -- we'll touch on a number of
13 these -- these areas when we go through each of the
14 program reviews. I'll spend a bunch of time with you
15 talking through what I'm going to do about or do
16 differently in each of these areas. But again to
17 summarize what's gone on over the last 10 years, we see
18 that our returns have been lower than expected. We've
19 underperformed peers. We've had inconsistent pacing with
20 our private market programs.

21 In real estate, we had some missteps within our
22 value-add and opportunistic programs, but we've now
23 repositioned that program to core and we'll explore
24 further what we can do about the higher expected returning
25 buckets of value-add and opportunistic. Our not --

1 non-U.S. home bias approach historically did not serve us
2 well. The factor-weighted segment de -- certainly
3 detracted from value, but I don't want it to be lost that
4 it -- it did do what we hoped it would do, i.e. dampen the
5 downside during this most recent volatility. But as far
6 as detracting from overall returns, that's -- that is a
7 fact, it did.

8 Long duration fixed Income in these very recent
9 years again detracted, but has served us well over
10 history. So it's not something we would suggest just
11 completely changing on, but we will use every tool in our
12 toolkit certainly and be exploring those. And, you know,
13 deployment of capital into active strategies did not
14 consistently add value. So that's more of a question of
15 not only what programs are we doing, but how do we make
16 decisions around our active risk programs. How do we --
17 how and when do we decide? How do we decide where to
18 allocate our risk budget? How do we decide what we're
19 going to expect out of those active programs, et cetera.

20 And so we'll be spending a bunch of time together
21 in the coming weeks and months walking through that. I'll
22 be walking through with you my ideas on some of -- on each
23 of these elements for sure.

24 Next page, please.

25 --o0o--

1 CHIEF INVESTMENT OFFICER MUSICCO: So lessons
2 learned. I walked you through the 10 lessons that were
3 certainly pointed out through this 10-year exercise.
4 What -- what's our path forward? We certainly learned
5 that we're not in a -- we don't have the luxury of just
6 setting an SAA and setting and press go. We certainly
7 need to be reevaluating more dynamically, more frequently.
8 We really need to make sure that we have a culture that
9 allows for, and supports, and hold folks accountable for
10 active risk taking. We really need to develop and
11 prioritize a framework for innovation and to make sure
12 we're constantly revisiting are we resilient? Are -- have
13 we set ourselves up appropriately, given what's going on
14 in the market as opposed to, as we said earlier, kind of
15 set -- set the SAA and go.

16 And to do so, we really need to be developing a
17 robust governance framework to make sure that our
18 decision-making is benefiting from timely agile
19 decision-making but also making sure that we have the
20 tools in place to act when the market suggests that we
21 should be acting as opposed to just waiting it out.

22 Next slide, please.

23 --o0o--

24 CHIEF INVESTMENT OFFICER MUSICCO: And so for me,
25 you know, my goal really is to build a culture where we

1 are held accountable and are making sure that we're very
2 focused on building this innovation and resiliency into
3 the program every day, making sure we have the right
4 people in place, making sure we have the right technology
5 in place, making sure that we're monitoring in a
6 consistent way our performance, and making sure questions
7 are being asked in a timely way, that we're agile, so that
8 we can react to opportunities in the market, so that we're
9 deemed to be agile to our investment partners.

10 And so between the risk management capabilities,
11 which I'll touch on again more so in our November
12 meetings, but we're certainly working on from our focus on
13 our sustainable investing. We're in the market right now
14 for some very key positions in that area. Tech and
15 innovation is one of our nine core business objectives
16 this year. We think that's super important. Talent and
17 culture is the thread that runs through all of this. Our
18 assets go up and down elevators or stairs every day. And
19 so it's a huge area of focus for us. And that really
20 boils down to us having more of a total fund management
21 approach.

22 Historically, we've taken, as you've seen in the
23 10 to 12 areas that we focused on today, at times we've
24 been quite siloed. And, you know, that's -- that's on us.
25 That's on us to make sure that we're not siloed. It's on

1 us to make sure that we really think through a total fund
2 lens. And what that means is decision-making, risk
3 allocation, risk budgeting all being done through more of
4 a total fund lens as opposed to, you know, one-off or a
5 more siloed approach.

6 I think the good news that we should remember, if
7 you want to skip to the next page please, I the bright
8 light here is that the strategic asset allocation process
9 that you all underwent and approved last November and we
10 set in place for July, I feel really does set us up for
11 success. I think we've got the right tools to work with.
12 I think that we're now -- because we've done this deep
13 dive, we've acknowledged that there's different ways for
14 us to be executing on that -- the strategic asset
15 allocation. There are more tools available to us and
16 probably more importantly we have to make sure this
17 culture of innovation resiliency is really woven through
18 our governance framework.

19 And so our -- our hope, our desire is that we
20 make it abundantly clear that we know we need to be held
21 accountable for our performance going forward. We've
22 humbly taken a look at steps that have been made in the
23 past and we are -- we -- we have learned from them and we
24 will learn, you know -- and going forward, we'll execute
25 on those lessons learned.

1 So maybe with that, I -- I can pause and take
2 questions. It was a high level review. And as I said,
3 we'll -- we have a lot more time during the actual program
4 reviews, but we thought it was important to separate and
5 have a separate agenda item today just to highlight kind
6 of those top 10 to 12 areas where we have underperformed
7 our peers over the last decade.

8 CHAIRPERSON MILLER: Yeah. Thank you. That was
9 very helpful. And I think it was a very encouraging and
10 forthright presentation. And I have a number of Board
11 members who would like to speak and discuss this further.

12 So I'll start with Theresa Taylor.

13 COMMITTEE MEMBER TAYLOR: Thank you, Chair
14 Miller. Thank you, Nicole, for the presentation. I do
15 appreciate the look-back. There's a couple of things I
16 remember asking about and being kind of brushed off. One
17 was how come we are overweight in international and public
18 equities, and was told that, you know, there was a reason
19 why and this was some years ago. And we apparently stayed
20 that way, even though we returned poorly through --
21 throughout the years after I asked that question.

22 I am a little disappointed in our -- and I get
23 it. I know there's lots of things that go into the bucket
24 of why our performance has been poor, and especially when
25 you look at it towards our peers. I'm just hoping and --

1 that looking forward that you're -- you know, and as we go
2 into closed session know, I know I can't ask for specifics
3 right now. And, of course, I will be later, but I'm --
4 one of the things you mentioned -- let me just go into one
5 of the things that I wanted to know about.

6 The first one was the value-add and opportunistic
7 real estate. So that didn't pay us. So can you explain
8 that a little bit better, because we -- we did take some
9 risks there and it didn't -- have we got anybody.

10 CHIEF INVESTMENT OFFICER MUSICCO: We're just --
11 we're going to -- yeah, we're going to gather --

12 COMMITTEE MEMBER TAYLOR: Yeah. There she is.

13 CHIEF INVESTMENT OFFICER MUSICCO: I'll certainly
14 answer to the things that I'm familiar with, but I've got
15 a team here that's got a couple dozen years of experience
16 here.

17 COMMITTEE MEMBER TAYLOR: Absolutely. I
18 appreciate it.

19 CHIEF INVESTMENT OFFICER MUSICCO: So I'd love
20 for you guys to get as direct and transparent of an answer
21 as possible. I'd like to call up Sarah just as we're
22 discussing real estate.

23 MANAGING INVESTMENT DIRECTOR CORR: Sarah Corr,
24 Investment Office.

25 The underperformance in value-add and

1 opportunistic actually goes back probably pre-GFC, when
2 the portfolio was 40 percent core and 60 percent value-add
3 and opportunistic, and we did a bunch of development that
4 didn't work out. Since that time, we've moved it from
5 about 40 percent core to almost 90 percent core. So we
6 really haven't done much in the value-add and
7 opportunistic space, which means what we have there is
8 very old and not -- not performing.

9 Now that we have 90 percent expected core, we'll
10 probably add some more value-add and opportunistic back in
11 and that should perform better than the legacy has.

12 COMMITTEE MEMBER TAYLOR: Okay. And those legacy
13 assets were prior to the Great Recession is what you're
14 saying.

15 MANAGING INVESTMENT DIRECTOR CORR: Correct.

16 COMMITTEE MEMBER TAYLOR: Oh, okay. Okay. Yeah.
17 We probably should do that. I appreciate that.

18 My next question -- and I appreciate that Sarah.
19 I don't -- wait a minute. Hold on. Yeah. So my next
20 question is on -- not factor-weighted, but the active
21 management in public markets. We didn't do too good in
22 that. Should we do more? Should we do less? What are we
23 looking at? In a general fashion. I don't want us to --

24 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. I'd
25 say, Theresa, in a general fashion what my hope is is that

1 we are going to get a lot more focused on making sure
2 we're being held accountable for making a return on any
3 active risk we take period. From my perspective looking
4 back, I think that we could have done a better job at
5 looking through our active risk programs more
6 holistically, more through a total fund lens. I think
7 that we should have been a lot more prudent on measuring
8 the risk we are taking and whether we are getting paid for
9 that risk. I think that we should have been more
10 thoughtful about where that active risk was being
11 deployed.

12 I mean deciding to take active risk is as much
13 about the market -- market opportunity itself, but also on
14 our in-house capability of assessing where that active
15 risk should be taken. And so a big chunk of the time
16 we'll be spending in this next chapter of my first year is
17 going to be exactly on that, is really making sure that we
18 have the right tools in place, the right culture in place
19 for risk taking, the right measurement, really thinking
20 about our active risk program more holistically.

21 And that is a -- it's a cultural shift frankly.
22 We have to make sure we create an environment where people
23 don't fear taking risk, because if you're punished every
24 time you take active risk because folks assume that when
25 you take active risk, it always pays, then people are not

1 going to be motivated or incentivized.

2 And similarly, if we just take active risk
3 without measuring and being held accountable for getting
4 the appropriate level of return on that risk, we're not
5 going to like the outcomes.

6 And so there's a chunk of work to be done there,
7 Theresa, to be frank. And I think that we will really
8 benefit from having that practical shift, the cultural
9 shift, and just tied into systems, and people, and
10 culture. All that intangible stuff that we often talk
11 about is a real thing when you're trying to create a
12 culture of active risk taking that gets paid for the risks
13 that we're taking. And so that's going to be my focus.

14 COMMITTEE MEMBER TAYLOR: That's excellent. I
15 appreciate that.

16 Along with that, I was curious about the public
17 equity factor-weighted segment, where it marginally
18 detracted. So that sort of paid us in the downturn,
19 right, which was what we were supposed to be doing. So
20 this is where I get a little frustrated. So when we had a
21 good return year, we were still under our peers, right?
22 And that was told to us that that was going to be because
23 we're, you know, using risk -- you know, we're -- we're
24 risk averse. We're going to, you know, make sure that
25 we're -- we have the -- in a down year, we have better

1 returns, because we're doing that risk mitigation, right?

2 So that's not what happened though it seems like.

3 I mean, a little bit of it happened. So I guess what I

4 want to know is how do we -- how do we make that work

5 better, right, our risk mitigation factors, along with all

6 of this other stuff. I mean, you just talked about --

7 CHIEF INVESTMENT OFFICER MUSICCO: Yeah.

8 COMMITTEE MEMBER TAYLOR: -- the active

9 management, right, and active risk taking. How do we do

10 the downside risk as well and still get paid, right?

11 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. And I

12 think we have to take again a more holistic review of the

13 portfolio just for growth in general, where are we getting

14 our growth from, separate and different from where are we

15 helping to dampen downside or where are we -- where are we

16 getting our downside protection. It's -- it -- you know,

17 it's -- it's easy to narrow in on any one of those 10

18 things that we flagged today and say it was the be-all and

19 end-all, and it was our demise.

20 But at the end of the day, the bigger story here

21 is through -- across the asset class opportunity to

22 capture growth, we were light, or we didn't have the

23 appropriate, you know, leaning into active risk in the

24 right areas that we're returning the appropriate

25 risk-adjusted returns.

1 And so I would suggest to you that you need to
2 have those types of programs that are focused on the
3 downside. We need to be more holistic in our thinking on
4 where we're getting growth from and making sure we're
5 getting paid for the risks that we're taking in those
6 areas. And so there isn't one magic answer. I'd say that
7 we can't look at any of these one programs in isolation
8 and say that's where we really -- you know, that's where
9 we missed the opportunity, other than really saying - we
10 saw it in a number of the charts - the biggest impact by
11 far was the 10 year we took a break from participating in
12 in private equity.

13 And that -- you know, no matter what we would
14 have done on the other things, and we've done the math,
15 and we've run the scenario, but big picture messages no
16 matter what we would have done with duration, with
17 factor-weighted versus cap-weighted, opportunistic,
18 value-add, none of that matches what we missed out on by
19 not being in the private market program. And we are
20 certainly fixing that now.

21 COMMITTEE MEMBER TAYLOR: And I agree and I
22 appreciate that. And I want -- I just want you to know
23 that the Board, whatever it takes, right? We -- we want
24 to be able to pay benefits far into the future. So
25 whatever it takes so that we can move the portfolio in the

1 right direction, I think the Board would be on board with
2 that. Let's just listen to each other.

3 Thank you.

4 CHIEF INVESTMENT OFFICER MUSICCO: Thank you.

5 CHAIRPERSON MILLER: Okay. Next, I have
6 Controller Yee.

7 Did it come on?

8 Let's try it again.

9 There it goes.

10 COMMITTEE MEMBER YEE: Great. Thank you,
11 Chairman Miller, and thank you, Nicole, for the report. I
12 very much appreciate the straightforwardness, but also the
13 challenges and the path forward that we'll be focused on.
14 I'm hopeful that the Board will be getting more frequent
15 reports of this type, you know, just given the environment
16 in which we're all operating. And I know at the staff
17 level and with your team that will be ongoing work that --
18 I think part of governance is also just, you know, kind of
19 engaging the Board more on these issues as well.

20 Just on the issue of risk, I have a ton of
21 questions actually. You raised the issue about not being
22 adequately compensated for the risk that we took on. But
23 just in terms of the comparison with peers, did we take on
24 more or less compared to the peers.

25 CHIEF INVESTMENT OFFICER MUSICCO: It's an

1 interesting quest -- it depends on the asset class. So I
2 think, you know, those are compli -- it's a complicated
3 question. And I think perhaps maybe that's our next deep
4 dive we do is to give the Board a better understanding of
5 where we are from our own risk appetite, or own risk
6 profile --

7 COMMITTEE MEMBER YEE: Right. Right.

8 CHIEF INVESTMENT OFFICER MUSICCO: -- versus
9 different groups, because it's such an important
10 ingredient into how -- to how we compare to, because
11 again, I -- we created this presentation because the
12 question is why have you underperformed? And so we wanted
13 to dig into the performance, or the returns, or the
14 headline of each of those asset classes. But exactly to
15 your point, Betty, there's so much more to it.

16 COMMITTEE MEMBER YEE: Right.

17 CHIEF INVESTMENT OFFICER MUSICCO: Are we
18 taking -- what is our risk profile versus others? Are we
19 getting paid for that risk? And I think that's the next
20 step of our journey to be frank --

21 COMMITTEE MEMBER YEE: Um-hmm.

22 CHIEF INVESTMENT OFFICER MUSICCO: -- is it's
23 more than just beat our benchmark, because we all know
24 that that's not going to pay the benefits.

25 COMMITTEE MEMBER YEE: Exactly.

1 CHIEF INVESTMENT OFFICER MUSICCO: We need to
2 really take a much deeper look at the risks that we are
3 taking or not, and whether we're getting paid for that
4 risk.

5 COMMITTEE MEMBER YEE: Right.

6 CHIEF INVESTMENT OFFICER MUSICCO: And so it's
7 part of our journey.

8 COMMITTEE MEMBER YEE: No, and I appreciate that.
9 And I think one of the main considerations for this Board
10 is how much risk are we really open to taking?

11 CHIEF INVESTMENT OFFICER MUSICCO: Correct

12 COMMITTEE MEMBER YEE: So I would really welcome
13 that deep dive.

14 And then with respect to our risk mitigation
15 strategy, which was developed really centered around our
16 investment return -- you know, rate of return, compared to
17 peers -- I mean just in terms of constructing kind of a
18 risk mitigation strategy, you know, some -- and I'll just
19 talk about the other fund of which I participate, where
20 it's actually an asset class. I mean, are -- when you
21 look at coming back in November with that discussion, will
22 it -- the capability question, will that be part of it, as
23 just how it's constructed as well?

24 CHIEF INVESTMENT OFFICER MUSICCO: Yeah,
25 absolutely. I think, you know, we have this dialogue on

1 our team all the time now, are we using all the tools we
2 can?

3 COMMITTEE MEMBER YEE: Yeah.

4 CHIEF INVESTMENT OFFICER MUSICCO: We're also
5 being very frank that the last 10 years isn't going to
6 look anything like --

7 COMMITTEE MEMBER YEE: Right.

8 CHIEF INVESTMENT OFFICER MUSICCO: -- the next 10
9 years. And so things that worked in the past, we really
10 need to be thoughtful and make sure we're not, as we said
11 earlier in the presentation, we're not in a set-go
12 mentality, that we're really taking a look and poking at
13 each other, and using the benefit of everyone around the
14 table, which again, when we get into the next
15 presentation, I try to go into a lot more details to why
16 we've set up these governance committees, why we think
17 they're beneficial precisely for these types of
18 conversations.

19 COMMITTEE MEMBER YEE: Um-hmm.

20 CHIEF INVESTMENT OFFICER MUSICCO: There have
21 been fits and starts historically at CalPERS into some of
22 these risk mitigating strategies. And again, I go back to
23 the comment I made earlier around having the appetite,
24 having the culture that doing those types of activities,
25 sometimes they go well, sometimes they do not. How do

1 people -- how do folks feel when they take the risk to add
2 on some of these programs?

3 COMMITTEE MEMBER YEE: Right.

4 CHIEF INVESTMENT OFFICER MUSICCO: A lot of that
5 it's -- you know, a lot of it is just this human nature
6 bit of investing and risk management. And so our next
7 chapter of our journey is really digging into all of this.
8 Why do -- why did we make decisions we made and what
9 stands in our way from making different decisions going
10 forward, and do we have those tools in place? And having
11 that dialogue with the Board to make sure that we all are
12 very clear with one other on the risk appetite of the
13 Board and are we doing our job at executing on that, and
14 are we sharing with you the pros and cons, or the
15 pitfalls, or the gaps, or the missed opportunities we may
16 all collectively decide is the right answer because of the
17 risk appetite, for example. I feel like that's a whole
18 big important journey that we need to go on together.

19 COMMITTEE MEMBER YEE: I agree, you know, and I
20 welcome that.

21 I especially appreciate your emphasis and focus
22 on governance. I think the people, the processes, the
23 technology, all of that that is going to contribute to how
24 we build this culture is really important. And I think my
25 question there is, not to complicate things, but, you

1 know, as you're looking at developing this culture, there
2 are going to be externalities that continue to kind of put
3 pressure on us. And -- and I'm not sure this is a bad
4 thing, but how would you overlay I guess the work that we
5 need to continue to do relative to achieving a net zero
6 portfolio by 2050?

7 So, you know, here we're trying to kind of just
8 really do a deep dive in terms of just other capabilities
9 that can be brought to bear. We are looking to not keep
10 doing these starts and stops with respect to our
11 strategies. But we also kind of have this larger kind of
12 global focus that other investors and peers are focused
13 on. But can you just kind of comment about kind of how
14 that gets overlaid on top of the work that we're going to
15 need to do that you've just described.

16 CHIEF INVESTMENT OFFICER MUSICCO: Sure. I
17 think -- maybe I'll start by trying to give you some
18 comfort. I mean, one of the early conversations that
19 Marcie and I had when I first joined was how do we make
20 sustainable investing just in our veins, just part of our
21 everyday --

22 COMMITTEE MEMBER YEE: Um-hmm.

23 CHIEF INVESTMENT OFFICER MUSICCO: -- way of
24 doing business. And one of the first of many things that
25 Marcie gave me support on was to bring the sustainable

1 investing function, if you will, over into investments to
2 report into the CIO for now, perhaps the DCIO of private
3 markets. But really at the outset, because I think it's
4 one of my top priorities --

5 COMMITTEE MEMBER YEE: Um-hmm.

6 CHIEF INVESTMENT OFFICER MUSICCO: -- is to make
7 sure that we don't think of sustainable investing as a
8 side hustle --

9 COMMITTEE MEMBER YEE: Kind of -- exactly.

10 CHIEF INVESTMENT OFFICER MUSICCO: -- or as
11 something off to the side of our desk that we figure out
12 how --

13 COMMITTEE MEMBER YEE: Yeah, it's totally
14 integrated.

15 CHIEF INVESTMENT OFFICER MUSICCO: -- it's just
16 completely integrated --

17 COMMITTEE MEMBER YEE: Right.

18 CHIEF INVESTMENT OFFICER MUSICCO: -- into
19 everything that we do, strategy-wise, go to market wise,
20 our branding, everything. And again, that -- that is a
21 bit of a journey, though, right, Betty?

22 COMMITTEE MEMBER YEE: Yes.

23 CHIEF INVESTMENT OFFICER MUSICCO: That's not
24 something I can flip the switch on --

25 COMMITTEE MEMBER YEE: That's right.

1 CHIEF INVESTMENT OFFICER MUSICCO: -- but I can
2 start with tone from the top. And Marcie and I are very,
3 you know, locked arm in arm on that approach here.

4 And so I guess it's a long-winded way of saying
5 it's top of mind for us just to make sure that we just --
6 we are sustainable investors. It's not a separate
7 strategy.

8 COMMITTEE MEMBER YEE: Right.

9 CHIEF INVESTMENT OFFICER MUSICCO: It is -- it is
10 absolutely a part of the conversation and the
11 decision-making, the governance that we have. Sustain --
12 being a sustainable investor is just like what's the
13 risk-adjusted return we're expecting. It just becomes
14 part of the dialogue every day, as opposed to let's go do
15 some neat projects that make us feel good.

16 COMMITTEE MEMBER YEE: Good. Good. I really
17 appreciate that approach. And I think it will be one that
18 will serve us well in the long term.

19 CHIEF INVESTMENT OFFICER MUSICCO: And it will
20 take time and we'll have to bring the Board along. I'm
21 going to have to show you sometimes it will feel like
22 we're making baby steps and other times it will feel like
23 we're making great strides, but we just want to keep the
24 momentum going. And, you know, we -- we aren't starting
25 from a standing start. We've got a lot of great things

1 already in the works, but I think just really pulling this
2 all together, and again making sure it's not something
3 that's off the side of our desk, but it's integrated into
4 our decision-making --

5 COMMITTEE MEMBER YEE: Absolutely.

6 CHIEF INVESTMENT OFFICER MUSICCO: -- is super
7 important.

8 COMMITTEE MEMBER YEE: Great. Thank you. Really
9 appreciate the report again. Thank you Nicole. Thank
10 you, Mr. Chairman.

11 CHAIRPERSON MILLER: Okay. Thank you, Madam
12 Controller.

13 And next we have Frank Ruffino for Fiona Ma.

14 ACTING COMMITTEE MEMBER RUFFINO: Thank you, Mr.
15 Thank you, Mr. Chair, and thank you for the presentation.

16 Just two quick question, one clarification. But
17 the first question is back to the page five slide. It was
18 I think the third or the fourth slide, the returns lower
19 than peers.

20 So that shows that CalPERS trailed peers by 1.3
21 percent per year over the past decade. So were CalPERS
22 returns more or less volatile than those of the peers?

23 CHIEF INVESTMENT OFFICER MUSICCO: I think it
24 depends on the program again, Frank. I think you have to
25 really break it down. And we're more than happy to come

1 back with that and continue to get in the weeds on each of
2 these differences. This was a very high level, more of a
3 directionally here are the 10 things that we really need
4 to do our homework around as to why and how we could have
5 done things differently, but it would really depend on the
6 actual asset class for the program to answer that
7 question.

8 I'd say, in general, you'd see from the CEM
9 benchmarking, we've taken less risk overall and got paid
10 less for the risk we took. And so that's not a
11 combination. That's not the quadrant we want to be in,
12 and so we need to work on that.

13 ACTING COMMITTEE MEMBER RUFFINO: Okay. Great.

14 And I know you already made a comment about
15 active management in the public market. And I just -- I'm
16 not sure if I was clear -- if I understand you clear. So
17 given the noted challenges of active management in the
18 public market, should CalPERS consider reducing active
19 management exposure further given its higher cost?

20 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. When I
21 talk about active management, I really think of our
22 program in two ways. We've got a massive beta part that
23 needs to work with the policy, and it's our beta exposure,
24 it's our index stuff. And then we have the opportunity to
25 really generate alpha.

1 So when I talk about active management, I'm not
2 just specifically talking about where we can generate
3 alpha on the -- the public equity book, which is where a
4 lot of the airtime gets spent. I'm talking about active
5 risk budgeting across programs that all have an
6 opportunity to generate dollars value-add, dollars to pay
7 benefits. And so when we transition into this next phase
8 together as a team and with the Board, we're going to be
9 talking about how do we take our entire active risk
10 budget, how do we slice that up across the different
11 relevant asset classes and strategies, how do we set
12 metrics for what we need to expect to get a return on for
13 that active budget, and ultimately what is the value-add
14 of dollars -- the real dollars in our pocket that we can
15 pay benefits with, what does that look like and are we
16 getting paid appropriately, are we being held accountable
17 for that risk?

18 And so they're kind of -- they're different --
19 they're different concepts. Certainly on the private
20 market side, that active management is more expensive, but
21 hopefully you get more bang for your buck in that area,
22 because it's a different -- it's a different thing
23 altogether.

24 Our job is to make sure that we take a look on a
25 relative basis at all the opportunities we have to

1 generate alpha to make sure that we're getting paid for
2 all the risk across the spectrum. And right now, our --
3 the way that we're set up, our behavior, our culture, our
4 framework isn't focused in that way. We're kind of -- we
5 look at it as, you know, where have we beat the benchmark?
6 I'd like to start talking about where are we adding
7 dollars to the genes, the benefits genes, to start paying
8 benefits?

9 And it's just a very different approach and it's
10 one that again takes a bit of a cultural shift, but
11 it's -- and it will take time, but that's the direction
12 I'd like to take us in.

13 ACTING COMMITTEE MEMBER RUFFINO: Thank you. And
14 certainly we wish you well in that culture.

15 CHIEF INVESTMENT OFFICER MUSICCO: Thank you.
16 I'll need your support, so...

17 (Laughter)

18 ACTING COMMITTEE MEMBER RUFFINO: Absolutely.
19 Thank -- thank you, Mr. Chair.

20 CHAIRPERSON MILLER: Okay. Thank you.

21 And we go to Director Lisa Middleton.

22 COMMITTEE MEMBER MIDDLETON: Thank you, Mr. Chair
23 and thank you, Nicole, for this presentation. Very
24 helpful. I want to go back to your discussion on private
25 equity and the lost decade. And I'm repeating what I

1 think you've already said was 2009 through 2018. And
2 certainly looking at the last few years, from this Board,
3 I have seen a very strong commitment to private equity as
4 a class. Yet, if I listen to what's happening outside of
5 this dais, there remains considerable, if not
6 misunderstanding regarding the value of private equity,
7 substantial resistance to continuing a strong investment
8 in private equity.

9 Please describe for us what you think our
10 strategy should be going forward, one, to better educate
11 the public regarding the importance of private equity, but
12 two, and most importantly, to better insulate CalPERS from
13 engaging in the kind of destructive practice that we
14 engaged in between 2009 and 2018.

15 CHIEF INVESTMENT OFFICER MUSICCO: I love this
16 question and I could spend all day on it, so I'll do my
17 best to be -- to be brief and hit the important points.

18 So I think -- first off, I think in the last few
19 years, under Greg's direction and the support of the team
20 and the Board, we really have turned around, not only the
21 program itself by deploying capital, but just really the
22 attitude and the approach -- our approach with partners,
23 the perception partners have of us of being a good
24 partner, our agility our in-house governance around it, et
25 cetera. So I think that that is something you've observed

1 and I think that's all good news and it's a great starting
2 point.

3 I think private equity is an asset class,
4 especially heading into kind of this new era that we're
5 about to head into actually provides for a tremendous
6 opportunity to CalPERS in particular. And I'll -- I'll
7 give you my thought on why.

8 Number one, the team has done a very good job at
9 choosing partners that are real value creators. When I
10 look at the list, even up to the most recent partners that
11 we've been doing diligence around, you know, it's almost
12 like old school private equity investing for the most
13 part, a lot of value exposure, a lot of teams that have
14 in-house value creation. And why is that important?

15 Well, it's important because I think in this
16 new -- this new era we're about to enter into, it's going
17 to be the old plain, boring type companies. Cash flow is
18 there. You know, you understand how margins can be
19 improved or not. That's where I think real value is going
20 to be added in this next era of where we are with
21 inflation, where we are with interest rates. And so I
22 think the team is doing a good job, has done a good job of
23 constructing a very diversified portfolio that isn't just
24 growth focused. In fact, we're light on growth and we're
25 almost trying to think about how do we -- how do we make

1 that balance between going from what's been historically
2 more of a value lens, if you will, to a growth lens.

3 The second thing I would say is in spite of
4 ourselves, we actually have more room to do more in
5 private equity than some of our peers, because we were
6 late to the game. And so it's bit of a -- it's a bit of a
7 interesting way that we've landed here, but there are many
8 programs around the world that find themselves
9 overallocated, not so much to their private equity
10 programs, but to their illiquid problems.

11 And so there could be an opportunity for us to
12 backfill old vintages by picking up secondary buys of
13 programs that we get to do the work and the analysis to
14 decide how does that fit into our puzzle. And I think
15 that that's a real opportunity, and not just with private
16 equity, but all of our private market programs, real
17 estate, certainly private credit as well, and
18 infrastructure. So I think that's all helpful.

19 I think the other thing that's happened in the
20 last few years is our reputation, our reputation for being
21 a good partner. And, you know, what -- what defines a
22 good partner?

23 Well, you know, we give quick noes as much as we
24 can give a quick yes. We demonstrate our in-house
25 capability as being, you know, strong, thoughtful,

1 decisive. I get feedback all the time on our team that
2 are looking at co-investments that that is the -- the
3 level -- that's the quality that we are now being
4 perceived in the market. We're being perceived as being
5 true thought leaders on ESG integration into our program.
6 We're being seen as true thought leaders on human capital
7 management. And so when we start to build our reputation
8 about being forward thinking, you know, where the ball is
9 going type partners in private markets, that's just going
10 to open up a tremendous door for us, in particular into
11 co-investing.

12 And that kind of brings me to the next point,
13 which is our real opportunity now is to take all those
14 lessons learned and take all those great partnerships that
15 we've been building on in the last, you know, few years
16 and really start trying to drive our co-investing program.
17 We're one of the few plans on the globe frankly that can
18 show up and in a thoughtful way with appropriate
19 governance and risk oversight show up with large equity
20 checks to help get some needle moving opportunities in the
21 market done.

22 And if you combine the fact that we've improved
23 our reputation, if you sprinkle in some of the asks that
24 were coming forward and having a first read on, that help
25 us be deemed a bit more agile and give us a bit more

1 flexibility, we're suddenly in a position to become a
2 first call on some of these really needle-moving from a
3 scale perspective opportunities that actually do start to
4 move the needle on a 450 to 500 billion program, which is
5 a very unique challenge that we have. Our size alone
6 is -- you know, puts us in -- gives us a whole other set
7 of unique constraints or, you know, difficulties at times.

8 And so overall, I think that if we start with
9 we're going to be sustainable investing partners and we
10 start with the fact that we have a reputation for being
11 good partners, we can be agile. We can be thoughtful. If
12 we layer in the resources and be thoughtful making sure
13 that we have the right tools in our toolkit and we
14 leverage the expertise of outside partners when needed, I
15 actually think, Lisa, we're in a really excellent time to
16 be deploying into the private markets space overall. And
17 I think the team has done an excellent job at
18 repositioning private equity, real estate, and
19 infrastructure over the last call it five years.

20 COMMITTEE MEMBER MIDDLETON: All right. Thank
21 you. Very helpful. I want to change focus just a bit. I
22 appreciate looking back over the last decade. But that
23 begs the next question what is the next decade going to
24 look like and how is it going to be different than what
25 we've experienced over the last 10 years? Are there

1 particular asset allocation classes that you think are
2 more likely to be different? How do you approach raising
3 the question what should we be doing differently going
4 forward?

5 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. I think
6 I'd go back to some of my earlier comments just around
7 where I think the real -- where we need to be thoughtful
8 about spending more time I guess you'd say is really more
9 on the value side of things versus growth. I don't
10 think -- I think we've all benefited from this
11 turbocharged decade of growth and growth assets. I think
12 we're going to want to spend a lot more time in the
13 roll-up-your-sleeves category, meaning we're going to want
14 to look at more value plays. We're going to want to look
15 at partners who actually have to go in and do something,
16 do different. We're going to want to make sure that our
17 own monitoring approach internally is best in class.
18 When, you know, things are flying, and everything is
19 rising, and everyone is making money, you can -- you know,
20 at times, it's easy to forget that that momentum or that
21 consistent approach to making sure we're doing what we
22 think we're doing, we're getting paid for where we think
23 we need to get paid, we're getting paid for the risk is
24 really important.

25 And so part of our total fund homework right now

1 is making sure we have our own monitoring approach in
2 place that's best in class across the asset classes. And
3 so I feel very good about where we are with liquidity. I
4 feel very good that we haven't even unleashed this
5 different approach to looking at value creation, or
6 value-add, or thinking about risk budgeting and getting a
7 return on that risk. It's a whole different approach
8 that -- it's going to be a lot of work and it's going to
9 be a big culture change for us, but this is a very good
10 time for us to be doing it.

11 We can leverage partners that we already have.
12 We can start deploying a lot more capital into
13 co-investing and we can start -- you know, we are going to
14 have a reputation as being an employer of choice, because
15 not only of our -- of our culture, but because we're doing
16 things. And I think for the next little while, certainly
17 on the private market side, as I mentioned earlier, a lot
18 of groups are kind of a bit on hold right now, because
19 they're overallocated. We are in the opposite place. So
20 if you want to come and learn alongside some of the
21 smartest minds in the industry through our partners and
22 even with the talent that we have in-house, we're going to
23 become an employer of choice and I really believe that.

24 COMMITTEE MEMBER MIDDLETON: All right. Nicole,
25 thank you and always be coming back to us and telling us

1 what you need to help you.

2 CHIEF INVESTMENT OFFICER MUSICCO: I appreciate
3 it. Thank you.

4 COMMITTEE MEMBER MIDDLETON: Thank you, Mr.
5 Chair.

6 CHAIRPERSON MILLER: Thank you.

7 Next, we have Director Pacheco.

8 COMMITTEE MEMBER PACHECO: Yes. Thank you,
9 Nicole. Good morning. And thank you for your
10 presentation. I really appreciated it. Also, thank you,
11 Chair Miller, to allow me the opportunity to have a few
12 questions.

13 So my first question is actually on the last page
14 of your presentation page 16 on the path forward. And I
15 just want to know how long do you think it would take to
16 have this change this culture of resilience and innovation
17 in the total fund to bring it to -- to bring it to
18 fruitness, because I -- I kind of -- I see your point and
19 how it's important. It means it actually gets central to
20 our -- to being successful is having this culture. But
21 I -- what are your thoughts of the time line and have you
22 even thought about where we would go from there? That's
23 my first question.

24 CHIEF INVESTMENT OFFICER MUSICCO: Well, I think
25 the good news is is that we've already -- we're already

1 well on our way in some of these areas. A lot of it's
2 cultural change, right? So sometimes, you know,
3 opportunities will present themselves that I -- I didn't
4 even realize would create a spark in getting folks excited
5 about innovation, for example. The -- the fact that we
6 now come together weekly and discuss any needle moving
7 opportunity of size, despite the fact that we have all
8 kinds of delegated authority at the MID level to do, you
9 know, interesting things, we've -- we've put that aside as
10 far as having the dialogue and the conversation being in
11 the room. I think that's going to end up having all kinds
12 of ancillary benefits that I didn't even imagine on
13 culture, on risk appetite, on feeling, you know,
14 supported.

15 I think the fact that we're really trying hard,
16 and I'm really appreciative of the engagement of the
17 Board. We're really trying hard to engage with you and
18 you are showing that you are engaging with us. That
19 alone -- I mean, if I don't have to be worried that I'm
20 not going -- that I can't talk to you about something
21 openly and say I just took a look at the last 10 years and
22 these are the things that are on my mind. If I didn't
23 feel like I could have that open dialogue, that would set
24 us back. We're in an opposite place right now. We're
25 coming forward to you. We're saying here's where we

1 really think we need to go. We need your support.

2 I've heard on a number of occasions if you need
3 resources, whatever you need, Nicole, tell us. But then
4 it's on me to share with you where I think things are
5 going sideways, or I'm worried, or I think there are
6 concerns, or if I feel that, you know, we're going down a
7 direction through the risk lens that I don't think is
8 going to get us where we need to get to, or if I feel like
9 we're being too aggressive in another way and I'm worried
10 about that we don't have the resource in-house to do it,
11 having that open and transparent dialogue with you I think
12 is what's going to make executing on this something that
13 will exceed our expectation. So I wish I had this
14 specific timeline.

15 I like to think in two-year chunks. I kind of
16 think first year get it up and running, second year see it
17 humming, third year it's on its way. So I think of it as
18 the first, you know, couple years. I'd say we're right on
19 schedule. I was -- I've -- I've had tremendous support
20 from the team. As I said, we're getting good traction in
21 the market on some of our key hires and the interactions
22 that we're having with the Board have exceeded my
23 expectations.

24 And so, look, I think to build an in-house direct
25 deal doing program, that's a 10-year journey. I'm not

1 going to pretend we could bring everything in-house.

2 It's -- and when I say 10 years, it's between the systems
3 and training up the people. But in the interim, in a very
4 short time period as in like from year to year, we can be
5 doing a lot of interesting things with strategic partners.
6 We can leverage the in-house capabilities we have and
7 buffer them with the outside expertise, you know, safe
8 pairs of hands, smart eyeballs around the table. There's
9 so much that we can be doing given the liquidity position
10 we're in, given the authority that we have, and just given
11 the opportunity set that's right in front of us.

12 And so again, once we're through this Board
13 meeting, I'm excited about our next few Board meetings,
14 because I feel we can turn from where have we been to some
15 of the really exciting things that are in the pipeline for
16 where we'd like to go.

17 COMMITTEE MEMBER PACHECO: That -- that's great.
18 I really am -- I'm really impressed with your enthusiasm
19 and optimism. And I'm -- I'm very optimistic as well. In
20 terms of having the information on hand for us at the
21 Board to understand at a very high level, on page three,
22 you know, when I looked at the realized 10-year Sharpe
23 Ratio of 1. -- you know, 1.0, which is -- you know, it's
24 okay, but I -- do you think that we need to develop
25 more -- a more robust matrices -- key matrices for us to

1 kind of evaluate we are, because the Sharpe ratio it
2 certainly will -- takes into account the returns relative
3 to the investment risk. And I' just curious what your
4 thoughts are on that.

5 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. I think
6 what you'll see, you'll start to see us talk a lot more
7 about the -- the active risk bit, so more on the
8 information ratio. You'll start to see us being a lot
9 more focused. Are we getting paid for the risks that
10 we're taking and are we taking the risks to begin with?
11 So absolutely, there will be a lot more focus on those
12 types of metrics going forward. And I will be holding
13 myself and our team accountable to make sure that, you
14 know, we're sharing with you our journey, but certainly
15 that internally that that's how our brain starts to think.
16 Are we taking the appropriate amount of risk, are we
17 getting paid for that risk, and how do we compare?

18 COMMITTEE MEMBER PACHECO: That's -- that's
19 Excellent. And so that leads me to another question about
20 risk. So CalPERS has used some long-term treasuries,
21 fixed income, as an inexpensive risk mitigation process.
22 In recent -- in recent ALM cycles should CalPERS consider
23 other ways to mitigate risks in the public markets, for
24 instance?

25 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. I think

1 who our team has been talking about now, and there's a
2 bunch of bodies of research already going on is the last
3 10 years isn't going to look like the next 10 years. So
4 tools that we would have used historically we can't assume
5 are still going to use. That doesn't mean you throw
6 things out and assume that it's just a whole new game.
7 There are many attributes of all of our programs that
8 should remain, but then it's just a matter of balance.
9 Are there other areas we can be allocating to through that
10 risk mitigation lens?

11 COMMITTEE MEMBER PACHECO: Um-hmm.

12 CHIEF INVESTMENT OFFICER MUSICCO: The answer is
13 most likely, yes. It's just a matter of us figuring out
14 and making sure the governance is around the decision to
15 as well as the decision not to -- to do certain things.
16 And right now historically as we saw, it's been quite a
17 siloed decision-making process and now it's not
18 going to -- it is no longer siloed. It is done in a more
19 holistic way taking into consideration what every
20 opportunity that we have, that we're balancing liquidity,
21 we're balancing risk, we're -- what are the trade-offs?

22 COMMITTEE MEMBER PACHECO: Right.

23 CHIEF INVESTMENT OFFICER MUSICCO: And so you'll
24 start to see us come forward with different ideas for risk
25 mitigating strategies as well as growth strategies.

1 COMMITTEE MEMBER PACHECO: I look forward to that
2 information. That's going to be very exciting.

3 Thank you very much. Thank you.

4 CHIEF INVESTMENT OFFICER MUSICCO: Thank you.

5 COMMITTEE MEMBER PACHECO: Thank you, Chair.

6 CHAIRPERSON MILLER: Thank you.

7 Our next question comes from Dr. Willis who's
8 participating remotely.

9 COMMITTEE MEMBER WILLIS: Good morning, Nicole.

10 First of all, I'd like to thank you for taking us
11 on your journey. And I appreciate your
12 straightforwardness and your candor.

13 My question is in relation to the opportunist --
14 oppor -- opportunistic real estate investments. Can you
15 clarify and explain why it's considered higher risk -- a
16 higher risk investment and compare to others?

17 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. We
18 certainly can. I'll have Sarah come forward again. She's
19 the expert on the team in that area in particular.

20 COMMITTEE MEMBER WILLIS: Thank you.

21 MANAGING INVESTMENT DIRECTOR CORR: Sarah Corr,
22 real estate. The -- (clears throat) -- excuse me. The
23 opportunistic is riskier because it is -- an example would
24 be buying land and getting it entitled, and then building
25 a housing development, building an office building. So

1 there's lots of risks in that. Whereas, as the core is
2 buying an existing building that's fully leased, and
3 therefore has less risk to it.

4 COMMITTEE MEMBER WILLIS: Okay. What about in
5 terms of high level debt, do you encounter that as well?

6 MANAGING INVESTMENT DIRECTOR CORR: Opportunistic
7 would have more debt on it as well, correct.

8 COMMITTEE MEMBER WILLIS: Right. Okay. Thank
9 you so much for the clarification.

10 CHAIRPERSON MILLER: Okay. Thank you. And we're
11 back to President Taylor.

12 Oh, let me try it again.

13 There you go.

14 COMMITTEE MEMBER TAYLOR: Thank you very much,
15 Chair Miller. So I had -- it got brought up some time ago
16 so I'm going to circle back to what Ms. Yee was talking
17 about. And Nicole, you mentioned -- you brought up the
18 fact that you're going to be integrating the sustainable
19 investment group into the Investment Office. And I
20 just -- I have concerns. I think I've voiced them to you
21 before, but also here's my -- here's my concerns.

22 We have a well-oiled team in James, and Travis,
23 and Tamara. So I just want to -- and they're working
24 really well with stakeholders, extremely well on the S on
25 the ESG, right? And I know Marcie participates a lot in

1 the climate change events that are important to CalPERS
2 add other events that are important to CalPERS, DE&I
3 events, et cetera.

4 But I'm concerned in that the last time it was
5 integrated into the Investment Office, there was a loss of
6 agency from the Sustainable Investment Group. So I want
7 to make sure that these folks are still able to do their
8 work with the stakeholders that they currently engage with
9 all the time, as well as implement our goals. And one of
10 the things I see -- and I know you're brand new, so
11 it's -- it kind of came to a screeching halt, but one of
12 the things I see that didn't happen was last -- last year
13 when Ms. Simpson was still here, we were working on having
14 a new five-year ESG strategy. Well, that is nowhere to be
15 found at this point. I don't know -- we haven't heard a
16 report on the research or anything. And I know we need a
17 new head of the program, et cetera. We have an interim
18 head.

19 But I just want to make sure that this important
20 piece of work that you recognized that we are so
21 world-renowned for is still autonomous and has the agency
22 it needs to do that job it needs to do, that the Board has
23 asked it to do.

24 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. Thank
25 you, Theresa. Absolutely. I think that's top of mind for

1 Marcie as well, and as a result it's top of mind for
2 myself and would have been. I think my idea of bringing
3 the position over to investment was frankly not to --
4 there should feel no change. If anything, it should
5 feel -- we will still all benefit from the incredible work
6 being done by the current team. That isn't going to
7 change.

8 I think what does change though is my team within
9 investments, we all know that if each and every one of us
10 is not a success in our individual business objectives,
11 then we're all going to hold each other accountable for
12 just not being a success overall. And the challenge of
13 having such an important role of sustainable investing not
14 residing within investments, it doesn't allow me to hold
15 every single one of my team members accountable for its
16 success.

17 And right now, the way that we've set ourselves
18 up by having these nine business objectives and by having
19 elements of the sustainable investing piece a part of
20 those nine, if that role, if that mandate is not a
21 success, then we've failed as an investments teams. I
22 can't have that same expectation of my team if it's not --
23 this was my rationale for wanting to have it within the
24 team. And so my hope is that you'll start to see that --
25 and hopefully again by November, you'll see some, you

1 know, great movements we've made in some of these
2 programs. We're very close to announcing some really
3 large initiatives that will make us feel really proud, not
4 only to ourselves but in the market for some of the things
5 that we can do that really move the needle in some of
6 these areas of emerging managers, diverse managers, et
7 cetera, as one example.

8 You'll start to see that we're much sharper
9 focused on integrating across ESG across all our asset
10 classes. We've got a huge body of work that has been
11 ongoing with some of our partners. Well, why isn't it
12 with all of our partners. I mean, it's hard to get to
13 all. But in theory, by having it reside within
14 investments, I just feel like one plus one will be 10. So
15 that's my hope and that was the intention of bringing it
16 and really making it an absolute necessity to see it be a
17 success, otherwise none of us are a success on the
18 investments team.

19 COMMITTEE MEMBER TAYLOR: Great. And so I'm --
20 I'm assuming then that the accountability factor for each
21 of the asset classes, you'll be working with them on that
22 to make sure, as well as still -- I don't think you really
23 answered to the agency part of our folks that are
24 currently there. I get integrating it, right, and making
25 those folks accountable, but making sure that the team

1 that's already there has the agency necessary to do their
2 job.

3 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. No
4 question. I mean, that can't suffer at all to meet the
5 needs of what we're trying to do with weaving sustainable
6 investing into the rest of the organization. There's a
7 body of works that go on that have -- don't really have
8 the eye in investing, but they do. At the same time, they
9 do. And so what you've seen and what you've been working
10 with, and what the Board has felt real benefit from I hope
11 only is amplified, and that would be the intent.

12 And I'd like the feedback if you're feeling that
13 it isn't, because the intent is to make sure that we're
14 seen as world class on -- for all aspects of what we deem
15 sustainable investing initiatives.

16 COMMITTEE MEMBER TAYLOR: I appreciate it. And
17 then one last question. For some odd reason, it just -- I
18 thought that there was going to be a research arm to this.
19 Was I wrong? Is that the case, you're going to have --

20 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. I mean
21 I'd love to fold in research in many ways, research around
22 the risks in our portfolio, research within the investment
23 opportunities and risk just within topics on how we can be
24 seen as global leaders. Again, these things take time and
25 they will require resources. And there are pockets of all

1 of those things are already happened. It's just a matter
2 of pulling it together and being a lot more consistent in
3 what we're doing and how we're reporting it to yourselves
4 and our stakeholders.

5 And in addition to that, we have a whole
6 communications team now that's just focused on making sure
7 we're communicating well on all of these activities and
8 more. And so we're really trying to tackle it from a few
9 different angles.

10 COMMITTEE MEMBER TAYLOR: Well, you mentioned a
11 bunch of stuff. Number one, we should be telling our
12 story always, and number two, I'll look forward to this
13 new governance to see how that works within our Investment
14 Office, and get things moving, and succeed in getting your
15 goals going. So I appreciate all of this. Thank you very
16 much.

17 CHIEF INVESTMENT OFFICER MUSICCO: Thank you.

18 CHAIRPERSON MILLER: Okay. Thank you.

19 I see no more requests from the Board. And I
20 really appreciate the dialogue, and the material, and the
21 presentations, and the thoughtful approach you've taken to
22 bringing all this together in a way that helps us not
23 only, you know, see where we've been, but, you know, have
24 a, you know, kind of an encouraging and confident look
25 forward to where we -- we may be able to go going forward.

1 At this point, I'd like to invite Mr. Jerry
2 Fountain from CSR up. He's asked to comment on Item 5a.
3 And if you'd come on up, I'll give you the floor.

4 MR. FOUNTAIN: Good morning. And I appreciate
5 this opportunity to speak to the Board.

6 I may be less generous with my comments than past
7 speakers. I feel that we haven't done well over the last
8 10 years. Other organizations operating in the same
9 investment environment have done much better. And looking
10 at the lessons learned and the path forward, I believe
11 that this path forward should have been an everyday job
12 description of our Investment staff.

13 Obviously, these things they know about, but the
14 implementation has -- has been lacking. I'd be more
15 confident sitting here today if I heard a little bit of
16 how these steps were going to be implemented, rather than
17 this is what we plan on doing. And I'll sit here 10 years
18 from now luckily and hearing the same thing, this is what
19 we need to do, this is what we want to do. How about
20 telling me how you're going to do it.

21 So possibly -- and this is critical on my part,
22 but possibly the Board needs to provide more oversight to
23 the Investment staff, and possibly take the step one
24 forward and reevaluate the qualifications and philosophies
25 of your current staff members.

1 As I said previously, other organizations have
2 operated in the same investment environment have done
3 better than we have and there should be a reason for that.
4 And this report that is submitted is a great report, but I
5 take it just as a justification of poor performance.

6 Thank you.

7 CHAIRPERSON MILLER: Thanks. And I introduced
8 you, but if you would introduce yourself for the record.

9 MR. FOUNTAIN: Oh, I'm sorry. Jerry Fountain.
10 And I'm speaking here as a private person as the
11 stakeholder of CalPERS.

12 CHAIRPERSON MILLER: Great. Thanks very much.

13 Okay. I think that covers it for 5A.

14 COMMITTEE MEMBER TAYLOR: You have one more
15 speaker.

16 CHAIRPERSON MILLER: One more speaker for 5A.

17 Oh, that's -- okay. I will ask Terry Brennand to
18 come on up and speak on Item 5.

19 MR. BRENNAND: Good morning, Mr. Chair and
20 members. Terry Brennand on behalf of SEIU California.
21 Happy to be here on this rainy day.

22 I'm really happy to hear the comments of your new
23 CIO. I think we're moving in the right direction.
24 However, I have to agree with Jerry from CSR, my members
25 are really disappointed in past performance here at

1 CalPERS. We have been told that we had to de-risk the
2 portfolio for the downturn for about a decade. We've been
3 in the process of it for at least five or six years.
4 During that process, we underperformed every one of our
5 peers on the upside, all with the promise that when we got
6 to the downside, we would be better protected than other
7 funds.

8 We would be better protected against a
9 downmarket. Well, now we've had the test. And granted
10 it's only one year, I understand up and downs, but in the
11 test of a downmarket, we continue to underperform our
12 peers. And that's a huge disappointment for those of us
13 who believed that this was a strategy that was going to be
14 successful. And it's turned out that, you know, shadowing
15 a benchmark is not going to be acceptable.

16 What we have delivered for our members and our
17 agencies in terms of performance is well below the
18 expectations of this organization, this Board, this
19 Investment Office, and I'd look forward to working with
20 Ms. Musicco in the future here on changing that dynamic,
21 restructuring our thinking process so that we're not stuck
22 in this mode of constantly underperforming our peers and
23 still delivering something near a benchmark. You're going
24 to be talking tomorrow about -- or later this week about
25 performance bonuses and incentives. I'm not seeing any

1 value-added.

2 Just chasing the benchmark is not delivering for
3 our members. It's not delivering for your Board. It's
4 not delivering for California. And I'm looking forward to
5 changes to make that better. There are a few other things
6 that weren't mentioned that we need to consider, including
7 accelerating or reach toward net carbon neutrality. It's
8 time. We have to up the program. When you've got 200
9 fossil fuel investments and you've got two of them
10 incorporate carbon capture, that's not good enough.

11 Also, you're outside investment team --
12 (microphone turned off)

13 CHAIRPERSON MILLER: Oh.

14 COMMITTEE MEMBER TAYLOR: Whoops.

15 MR. BRENNAND: -- less diverse than they need to
16 be. Thank you for your time.

17 CHAIRPERSON MILLER: Yeah. Thank you, Terry.

18 Okay. I think that does it for that item, 5A.

19 And moving to 5B, which is revisions to the Total
20 Fund policies.

21 (Thereupon a slide presentation.)

22 CHIEF INVESTMENT OFFICER MUSICCO: Thank you.

23 We're just having some of my colleagues come up to
24 participate in this part of the agenda. Greg, Sarah, and
25 Amy are joining us at the presenter's table.

1 So this is really a first reading of -- of some
2 of the potential changes that we'd like to discuss with
3 you around our investment policies. And it ties back to
4 some of the conversation we were having earlier about ways
5 to make us more agile, both internally but also perceived
6 through the eyes of our investment partners. Certainly as
7 we're about to embark on this era of opportunity to be
8 deploying more capital into co-investments for an example,
9 having a few more tools in our toolkit, and updating some
10 of the policies to reflect the size of the programs, the
11 strategic asset allocation, execution requirements just to
12 get to that execution point.

13 There's some suggestions and some history. And
14 hopefully, by the end of this presentation, the rational
15 will become a lot clearer, that it's -- it's more about
16 making sure we're agile. It's more about fine-tuning and
17 right-sizing for the size of programs that we have and for
18 the execution of the strategic asset allocation that it is
19 about -- about anything else.

20 And so with that, maybe we could flip to the next
21 page.

22 --o0o--

23 CHIEF INVESTMENT OFFICER MUSICCO: So again,
24 we'll have a policy -- I'll do a quick overview of the why
25 we're here today and what we're asking for, and Greg, and

1 Sarah, and Amy will go through different updates on their
2 program and how that relates to these policy requests and
3 Amy will walk through the policy changes.

4 Next slide, please.

5 --o0o--

6 CHIEF INVESTMENT OFFICER MUSICCO: So the punch
7 line here is that the new strategic asset allocation
8 requires significant deployment of capital. As you know,
9 in November, the Board approved a new SAA, which included
10 increased allocations to private equity, real assets, and
11 private debt as its -- as a new strategy overall.

12 And today, what we're asking for are some policy
13 changes just to help us get to that endgame. In some
14 cases, it's about more flexibility. We've got broader
15 deal sources and we have a -- we need a wider filter to
16 capture attractive deals. We need more agility to capture
17 those deals. In other case, we're just looking to refresh
18 historical levels that would have been granted to us
19 established at significantly lower NAVs of -- of those
20 programs.

21 Next page, please.

22 --o0o--

23 CHIEF INVESTMENT OFFICER MUSICCO: So before we
24 launched into that, I thought it was important just to
25 spend a bit more time on this new governance model. I

1 know I've touched on it a few times, but I think it's
2 really important to give the Board comfort that whenever
3 we're talking about policy changes, you know, it -- it
4 can -- it can lead to, you know, perceptions that may not
5 be accurate around giving us, you know, more flexibility
6 without the appropriate amount of oversight, for example.
7 So I want to make sure I just touch on that head on.

8 When I arrived and did my walking tour, I
9 delivered to the Board and to the team this notion of
10 innovation needs to be at the core of everything we do.
11 We need to be having a lens on resiliency just given where
12 we are in the markets from now and going forward versus
13 where we've been.

14 And so we kicked off the second stage of my
15 listening tour, so starting around 90 day onward with the
16 establishment of these three governance committees. And
17 again, the point wasn't to create bureaucracy for the sake
18 of bureaucracy. It was really trying to drive a few
19 things.

20 Number one, we have nine business objectives and
21 I want to make sure I do everything in my power to make
22 sure we execute on those objectives. And so we need
23 forums in place to make sure we're doing work we said we
24 were going to do. The second piece is we have a number
25 of -- a number the business objectives that we've laid out

1 are more around the people and culture bits. And so we
2 needed a forum to make sure that as the CIO I was getting
3 frequent updates and that the team was being held
4 accountable in a forum amongst each of us, our peers,
5 within our -- within our teams that we're being held
6 accountable of getting that work done.

7 The third pierce was we've talked a lot about how
8 we have this massive opportunity to be thinking through a
9 return on risk perspective, a risk budgeting perspective,
10 a, yes, there's a very important policy piece that is
11 around a benchmark, but more importantly to get us to the
12 endgame of being able to provide benefits. We really need
13 to look at whether we're getting paid appropriately for
14 the risk we're taking. And so having an entire forum
15 dedicated to these risk initiatives, the portfolio
16 construction initiatives, new strategy initiatives to some
17 of the earlier questions of are you going to do different
18 things.

19 We've created the Total Fund Management Committee
20 so that we can have weekly discussions with the right
21 individuals around the table. It's a combination of
22 myself as Chair of each of these three committees as well
23 as the managing investment directors, as well as the
24 investment directors or others who run the day-to-day
25 functional operations of each of these relevant teams

1 around leverage, and liquidity monitoring, risk
2 management, et cetera.

3 And finally, the third Committee is and
4 Investment Underwriting Committee. And again, we know
5 that we are very fortunate to have the delegated authority
6 from the Board to make investment decisions across the
7 Board. But what I wanted to ensure as CIO is that I was
8 in the weeds enough to know exactly what was going on
9 within each and every program to make sure each of my team
10 members were aware of what was going on in each other's
11 programs, because again, if we don't have a total fund
12 perspective, if we're just making decisions in silos,
13 we're not going to get to where we need to get to.

14 So the point of Investment Underwriting Committee
15 was to make sure that everything from investments at a
16 certain dollar threshold, partnership or exposure at a
17 certain threshold, important proxy decisions that are
18 being made that could impact us from a reputational
19 perspective that -- where we can really move the needle
20 for example are all floating up to this one committee on a
21 weekly basis.

22 And finally, the business objectives that have
23 everything to do with investing and investing better,
24 those working groups come forward and present to this
25 Investment Underwriting Committee.

1 So hopefully, you know, the -- the buzz words of
2 people, portfolio, processes, and performance, start to
3 take on real life. They're more than just buzz words,
4 because they feed into -- everything we're doing through
5 those four pillars is showing up and we're being held
6 accountable for action and momentum being made in these
7 business objectives within these three -- these three
8 committees.

9 We can go to the next slide, please.

10 --o0o--

11 CHIEF INVESTMENT OFFICER MUSICCO: And so really
12 it's about giving you all a sense that the oversight
13 continues to get stronger and stronger. This graph is
14 just to show that there are six teams, including Board
15 consultants, that regardless of where we land on some of
16 our policy requests, there are six layers, if you will, of
17 every decision that we make. And so the oversight
18 absolutely remains in tact. This is just about
19 flexibility and keeping up with the size of our programs.

20 Can we go to the next slide, please.

21 --o0o--

22 CHIEF INVESTMENT OFFICER MUSICCO: The final
23 piece I wanted to just -- to tease out for all of you
24 before I hand it over to the team is that as we're
25 requesting to have more flexibility, again there is this

1 walked you through the specifics of the programs to give
2 you a better sense of the why we're here asking for policy
3 changes, because again depending on the program, there may
4 be slight nuances. But we hope after the presentation, we
5 can get into any questions or concerns that you may have
6 with the requests that are being made in this first
7 reading.

8 So with that, I'd like to transition to Greg to
9 discuss the Private Equity Program and the changes that we
10 see there and the requirement for our asks.

11 --o0o--

12 MANAGING INVESTMENT DIRECTOR RUIZ: Terrific.
13 Thanks, Nicole.

14 I wanted to take a few minutes to provide some
15 context on the growth of the private equity industry over
16 time and the implications on our Private Equity Program.
17 So here on this slide we lay out global private equity
18 fundraising over the past decade. This is the amount of
19 capital raised each year by private equity funds to invest
20 in private companies.

21 Now, because this capital is invested over a
22 multi-year time horizon, the total amount of capital that
23 could be invested in private equity today, which is
24 commonly referred to as dry powder, would be larger than
25 the amount shown here. As you can see in the graph, the

1 amount of capital raised by private equity funds has
2 increased significant over the past decade, increasing
3 from 150 billion in 2010 to 750 billion in 2021. As the
4 capital raised has grown, so has the number of larger
5 transactions completed each year.

6 On the next slide --

7 --o0o--

8 MANAGING INVESTMENT DIRECTOR RUIZ: -- we show
9 the data on the evolution and transaction size over the
10 past 15 years. The light gray bars show the percentage of
11 transaction sized below 100 million. And each bar above
12 the light gray bars shows progressively larger
13 transactions. Over the past decade, there's been a
14 significant shift to larger transaction sizes.

15 This has direct implications for our
16 co-investment program creating a material expansion in the
17 co-investment opportunity set, both in the number of
18 potential opportunities, as well as in the size of
19 opportunities offered to us.

20 Co-investment is the primary lever we have for
21 increasing the cost efficiency of our program, given that
22 co-investments have limited to no fees or profit sharing.
23 As the co-investment opportunity set has expanded, it has
24 created a larger set of potential investments for us
25 alongside our high conviction partners.

1 On slide 10, we show --

2 --o0o--

3 MANAGING INVESTMENT DIRECTOR RUIZ: -- CalPERS
4 historical annual private equity commitments. As the
5 private equity industry grew substantially over the course
6 of the past decade, CalPERS did not scale our commitments
7 relative to our total fund size, averaging annual
8 commitments of 2.7 billion from 2009 through 2018.

9 We have since begun methodically scaling our
10 capital commitments to private equity with a longer-term
11 goal of committing approximately \$15 billion per year to
12 ultimately reach our 13 percent strategic asset allocation
13 target.

14 Over the past four years, we have methodically
15 increased our average annual commitments and we are now in
16 line with the longer term average pacing we are targeting.
17 We are, however, continuously working to increase the
18 quality of our private equity exposure by shifting more
19 capital to our highest conviction opportunities in both
20 managers and companies as we look to leverage our scale as
21 competitive advantage moving forward.

22 I'll now hand the presentation over to Sarah to
23 touch on real assets.

24 --o0o--

25 MANAGING INVESTMENT DIRECTOR CORR: Thanks.

1 Next slide, please.

2 --o0o--

3 MANAGING INVESTMENT DIRECTOR CORR: The infra --
4 the infrastructure market has grown significantly over the
5 past 10 years. While the average deal size for the entire
6 market is 750 million, it increases to 2.5 billion for
7 deals over 500 million, the target market for CalPERS.
8 Additionally, the size of the market is expected to grow.
9 The energy transition alone will create massive demand for
10 new infrastructure. According to recent McKinsey report,
11 to get to net zero by 2050 will require 3 trillion per
12 year in new capital spend.

13 Next slide, please

14 --o0o--

15 MANAGING INVESTMENT DIRECTOR CORR: The Real
16 Assets team is focused on building out an infrastructure
17 portfolio over the past two years and has made good
18 progress. The portfolio grew from 4.8 billion in June of
19 2019 to \$11.6 billion in June of this year. However, to
20 meet the new strategic asset allocation targets, the
21 infrastructure needs -- portfolio needs to triple over the
22 next three years. Doing this effectively and efficiently
23 will require CalPERS to commit larger dollars to each
24 investment.

25 Next slide, please.

1 --o0o--

2 MANAGING INVESTMENT DIRECTOR CORR: As the
3 commitment limitation has remained constant in both real
4 assets and the infrastructure portfolio have grown, the
5 limitation as a percent of the program has come down. We
6 believe it would prudent to increase the limit to be
7 consistent with what the Real -- Real Estate Program can
8 do.

9 Next slide, please.

10 --o0o--

11 MANAGING INVESTMENT DIRECTOR CORR:

12 Infrastructure investing is more predominant
13 outside the United States and deals can be lumpy. One
14 large transaction outside the United States could have a
15 material impact and change the exposures. As a result, we
16 would suggest that increasing the policy limit on
17 international within the infrastructure portfolio, but
18 leaving the limit the same at the assets level will give
19 more flexibility in investing in infrastructure outside
20 the United States.

21 And I'll turn it over to Amy now.

22 --o0o--

23 INVESTMENT DIRECTOR DEMING: Thank you.

24 And now I'll talk about some of the specific --
25 the four areas of policy changes that we think are

1 necessary to carry out the Board's strategic asset
2 allocation decision and we would really like your feedback
3 today for this first read.

4 Next slide, please -- oh, sorry, same slide.

5 Wait. No, next slide.

6 --o0o--

7 INVESTMENT DIRECTOR DEMING: Thanks.

8 Okay. So regarding staff delegation limits. So
9 first we're requesting higher staff authority limits given
10 that the plan's assets have increased as well as their
11 target asset allocations. In most cases, this is simply a
12 refresh of our prior limits. And more on that one to
13 come. Next, we'd like to establish Deputy CIO limits
14 between the CIO and the asset class heads that were the
15 managing investment directors.

16 Third, we've added secondary sales of funds and
17 CIAs to the delegated authority structure at two, four,
18 and six billion for the MID, DCIO, and CIO respectively.

19 Lastly, we think that, you know, we've -- Nicole
20 spent a little bit of time talking about the Investment
21 Underwriting Committee. We think that the -- the IUC, as
22 we call it, the central decision-making would replace the
23 limit on any one program -- program head's fiscal year
24 spending.

25 Next slide, please.

1 --o0o--

2 INVESTMENT DIRECTOR DEMING: And when we think
3 about updating staff delegation, there are conceptually
4 three factors that influence delegation limits: first, the
5 size of the total fund, which we know has gone up; second,
6 the allocation to the asset class, which again has gone
7 up; and then any shifts to the business model. So when we
8 think about co-investment as a strategic initiative, this
9 is where the shift comes into play.

10 So in our case, we have all three. And the path
11 to the new strategic asset allocation is to write larger
12 checks. And we think we need higher delegate -- delegated
13 authority to get there.

14 Next slide, please.

15 --o0o--

16 INVESTMENT DIRECTOR DEMING: So what you see here
17 in these charts is that delegation limits for funds and
18 co-investments, as a percentage of the Private Equity
19 Program, are at all-time lows. When the prior limits were
20 put in place, they contemplated to -- relative to the
21 asset classes NAV at the time. However, private equity
22 has grown quite a bit without concurrent scaling and
23 delegated authority.

24 In the left chart, you can see on the green
25 arrows where the team has -- where we've proposed setting

1 the new delegated authority limit. It's below the orange
2 arrow, which is what you -- what is the '27[SIC] ALM cycle
3 where the -- you know, where delegated authority was in
4 2017. So still, you know, below our historical delegated
5 authority and this is for funds.

6 When you look on the right-hand side, that's for
7 co-investments. We are again at all-time lows. However,
8 in this case, we are asking for higher delegated
9 authority, and you'll see that on the upper right that
10 green arrow up there.

11 You know, Greg has -- Greg has described that
12 co-investment is -- Nicole has as well, is a strategic
13 priority for CalPERS, and the team will need to write
14 larger checks to achieve scale investment and co -- scale
15 co-investments.

16 Just -- just, you know, for general awareness, in
17 the last two years, the private equity team underwrote
18 upwards of 50 co-investments. And if we want to continue
19 to scale that program, it will be important for them to be
20 able to commit larger dollars amounts in addition to
21 executing -- executing larger volume co-investments.

22 Next slide, please.

23 --o0o--

24 INVESTMENT DIRECTOR DEMING: So for
25 infrastructure delegation limits, they -- they are also

1 questions.

2 CHAIRPERSON MILLER: Okay. Thank you very much.
3 Appreciate the presentations. And we'll start off
4 questions from President Taylor.

5 COMMITTEE MEMBER TAYLOR: Oh, thank you, Chair
6 Miller. Hold on a second. I want to make sure I've got
7 the questions.

8 I'm going to start with the global infrastructure
9 RA, it looks like we're going to be delegating outside the
10 U.S. Is there -- is that where most of the deals are? Is
11 that why, Sarah, you were talking about that?

12 MANAGING INVESTMENT DIRECTOR CORR: Correct.
13 International makes up a larger part of the infrastructure
14 market than the U.S. does. Currently, it's a 0 to 60
15 percent international --

16 COMMITTEE MEMBER TAYLOR: Okay.

17 MANAGING INVESTMENT DIRECTOR CORR: -- and we'd
18 like to take that 0 to 70 percent international. The
19 deals are just very lump. And so one deal can, you know,
20 change the portfolio significantly enough and we just want
21 that extra room --

22 COMMITTEE MEMBER TAYLOR: Okay.

23 MANAGING INVESTMENT DIRECTOR CORR: -- so that we
24 don't violate the concentration limit.

25 COMMITTEE MEMBER TAYLOR: Okay. And then I had a

1 question on page 18 of the 25. So -- I need to go back in
2 a second, but also let me get to 18. I just want to
3 make -- so why -- why do we need the increased limits, the
4 larger amounts? I think I'm concerned, because we -- you
5 know, we've given you guys a lot of authority, and given
6 where we have been, I want us to be able to make great
7 returns. I want us to be able to do the things we need to
8 do. But on the other hand, given the 10-year history
9 we've had, I'm wondering why we need to increase these
10 amounts so -- so much. These are -- these are significant
11 increases. So I don't know who wants to answer that.

12 Nicole.

13 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. I
14 think, Theresa. It's really a reflection of the market
15 opportunity that is in front of us, the ability to move
16 the needle, because of the size of our programs and
17 overall program. It's really almost -- it's a practical
18 ask. It's an agility ask. It's our ability to speak for
19 the dollars. A big part of us being deemed a partner of
20 choice, if you will, is that we can give comfort that
21 while we will give noes maybe as much as we give yeses,
22 that we can speak for the dollars without having risk that
23 we could get along really deep in the weeds on a deal
24 alongside a partner only to create risk in that process
25 for them, that we could be deemed not able to speak for

1 the dollars, if you will.

2 And so a lot of this is just about us having a
3 bit of flexibility to lineup with the size of programs
4 that we're trying to execute on, the size of deals that
5 we're seeing that are most likely to be coming in the
6 door, that make sense for us to do -- be doing in order to
7 move the needle.

8 COMMITTEE MEMBER TAYLOR: Okay. So one of the
9 things we were always told is that we were such a large
10 investor that it was -- it was hard for us to do deals,
11 especially in PE and real estate, because they -- we can't
12 participate in these smaller deals. So now you're saying
13 there's lots -- larger deals. So I'm -- is that -- and
14 then we're going from -- I mean, we're going up 1.9
15 percent, 2.4 percent, from 3 to 3.2, which isn't -- that's
16 not hugely significant. I'm just a -- I just want to make
17 sure we're given you the appropriate authority, but at the
18 same time we're not just chucking our authority away.

19 CHIEF INVESTMENT OFFICER MUSICCO: No,
20 understood. Understood. Yeah, look, it's a -- it is a --
21 from your perspective, it would be a delicate balance.
22 From my perspective, I'm just trying to position the team
23 to be deemed as -- as agile and be able to move with where
24 the market is going. We've had a number of calls, as I
25 said, in the past few weeks from other institutional

1 investors that are finding themselves in a bit of a pinch,
2 because they've well exceeded, because of the denominator
3 effect their -- their allocations to their private market
4 programs overall.

5 And so, you know, you get those calls, you need
6 to be able to be agile and move within a time frame that's
7 competitive to where else they could go to get a quick yes
8 with -- with you know, real conviction that we could speak
9 for the dollars. And so by having the ability to speak
10 for these larger thresholds, it just put us in a much more
11 competitive position to meet the needs of what our
12 programs require to execute on the SAA. So it's a bit --
13 it's a bit of a math -- it's more of a math issue of how
14 do we get there?

15 Well, we're going to have to write larger checks.
16 If we write larger checks, we're going to have to look at
17 our delegated authority levels. We're going to have to
18 look at some of the things that are wrappers around our
19 decision-making capability. So you'll see in the language
20 things like can we have the flexibility to do deals with
21 non-GPs, because technically today when a Canadian pension
22 calls and says would like to come in alongside us in our
23 Private Equity Program, our real estate program, our
24 infrastructure program, as it sits today, they're not
25 deemed a general partner. And so we don't -- we just

1 don't practically speaking have that flexibility.

2 So we tried to look through the lens of is there
3 anything in our policy today that prevents us from being
4 agile, prevents us from being able to execute where we
5 need, and how we need, and with the agility we need to get
6 to the SAA. And so that's really the theme that we're
7 trying to put upon you to consider.

8 COMMITTEE MEMBER TAYLOR: Okay. So that makes
9 sense. And then I want to kind of pivot to the -- how
10 does the new governance structure like help us feel
11 comfortable that we're giving you this -- this extra
12 money? Does it -- does it actually give some more checks
13 and balances throughout?

14 CHIEF INVESTMENT OFFICER MUSICCO: I think checks
15 and balances is a great way to articulate it. I can give
16 you an example. When I first arrived on the scene within
17 the first few weeks, we were -- because of the time -- the
18 timing Sarah's Real Estate Program was coming forward for
19 approval. And Sarah would have benefited from the six
20 layers, you know, between Board consultants, and our own
21 in-house lawyers, and our own team, et cetera. But at the
22 end of the day, those -- that decision was really for the
23 most part being done frankly quite siloed.

24 What these new governance committees do is put a
25 real check on, okay, if we do that over there, if we

1 execute on that partnership opportunity, where is the
2 opportunity lost elsewhere? What does that mean from a
3 liquidity perspective? What does that mean from a risk-on
4 perspective? Are they the right partners? If we're doing
5 a -- if we have an opportunity to work with partner XYZ,
6 maybe we've had a negative experience with that same
7 partner in a different asset class or maybe more
8 importantly, we're actually in the 7th inning of looking
9 at something with that same partner and maybe there's a
10 way for us to leverage this broader relationship with them
11 in a way where we can negotiate better fees, better
12 governance, et cetera.

13 So the belts and suspenders of all of these
14 needle-moving opportunities now coming to a single forum
15 where all MIDs are represented, where I'm represented,
16 where the Deputy CIO is represented, and we're in that
17 room with both the investment lens as well as Sterling and
18 his team's risk and liquidity lens, we're just putting a
19 lot more belt and suspenders around all of these
20 needle-moving opportunities. And that's only at that
21 level. After all those existing levels have already seen
22 the deal, the Board consultants, the individual team --
23 deal teams, they've still gone through the rigor that
24 they've always gone through, this is just extra layer.

25 COMMITTEE MEMBER TAYLOR: Okay. And then my last

1 question is on the prudent person opinions raising that --
2 that threshold also kind of concerns me a little bit,
3 because, I mean, that's that -- that's that other check
4 and balance, right?

5 CHIEF INVESTMENT OFFICER MUSICCO: Um-hmm.

6 COMMITTEE MEMBER TAYLOR: So I want to make sure
7 that we're not shorting ourselves some expert opinion.

8 CHIEF INVESTMENT OFFICER MUSICCO: Understood.
9 Yeah, again I would think of it, we're just seeing --
10 we're seeing larger deals and we're trying to do more
11 deals. And so at a certain level, the question -- the
12 question you should be asking yourselves is is it a the --
13 is it at a practical level for the types of deals we're
14 now doing? And so if we make that threshold too small, it
15 means that our resources are being used up on deals more
16 frequently on smaller checks when we could be using those
17 same resources working alongside on PPOs where the deals
18 are more needle moving. And so I -- as I see the size of
19 check rising, it makes sense for us to rise -- rise with
20 the tide --

21 COMMITTEE MEMBER TAYLOR: Right.

22 CHIEF INVESTMENT OFFICER MUSICCO: -- bring those
23 levels up for the PPOs. Otherwise, we could find
24 ourselves in every single situation for every single deal
25 that Sarah is looking at or that Greg is looking at

1 requires a PPO, and that just starts to become a real, you
2 know, cost at the end of the day, both time, people,
3 resources, and just real dollars.

4 COMMITTEE MEMBER TAYLOR: Okay. I appreciate it.
5 Thank you.

6 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. You're
7 welcome.

8 CHAIRPERSON MILLER: Okay. Next, I have Director
9 Pacheco.

10 Let's see, did that come on?

11 There we go.

12 COMMITTEE MEMBER PACHECO: Thank you very much.
13 Thank you, Nicole, for your excellent presentation here.
14 I -- so my question is back on private equity. And I
15 was -- I was quite impressed with -- and let me just go to
16 the slide. There was a slide with -- that Greg put
17 together that showed the -- the private equity industry
18 and deal size growth. So it -- in my -- you know, when I
19 looked at this, I -- thank you for interpreting this how
20 certain deals have shifted and how bigger -- bigger deals
21 have become more expanded in the -- in the marketplace.
22 And that kind of gives me an understanding of the whole
23 process.

24 What I'm -- my question is is about the
25 diversification at the very end of the presentation

1 regarding a way to increase our diversification in our
2 portfolio is to move more into growth equity, venture.
3 You know, traditionally we've been -- we've been in
4 buyouts. And I just wondered what are -- what safeguards
5 or what processes or systems we would have in place to
6 make sure that when we do that, we can -- we are -- we
7 have the right systems in place, so that we make and
8 maximize the alpha on those particular deals.

9 CHIEF INVESTMENT OFFICER MUSICCO: Yeah,
10 absolutely. So I would -- visually, I would think about
11 it as a barbell approach, where we have now these
12 committees in place for those big, large, needle-moving
13 deals they're all going to come through. But part of
14 having our pipeline report reviewed weekly is that we've
15 all agreed as a team that we want to make sure that we put
16 the same rigor around underwriting those smaller, because
17 they tend to be smaller, venture growthy deals, as we do
18 the large deals.

19 And so while technically things wouldn't --
20 smaller regular way deals don't appear at this
21 underwriting committee below a certain threshold, if
22 they're deemed or earmarked as venture, or growth equity
23 for example, as a team, we're discussing that pipeline
24 every week and we have the opportunity to say we know you
25 wouldn't normally bring a \$75 million check forward to

1 this committee, but we'd like to get more insight. We'd
2 like to come along for the ride during your diligence on
3 that opportunity in particular, or, for example, sometimes
4 we underwrite funds where we underwrite a family of funds.
5 And so normally the size of check that would bring -- that
6 would be brought forward to this committee is probably the
7 mothership fund and not necessarily the smaller of the
8 family of funds, because it's a venture fund or growth
9 fund.

10 Now, with this governance process in place,
11 because we have a relationship threshold as well, we'll
12 have the opportunity not only to earmark some of these
13 venture funds that we'll want to make sure we have a
14 closer look at, but any time we have large exposure to any
15 one group, any one name, it's going to get vetted again
16 with a little bit more rigor than perhaps historically.
17 And so we're trying to tackle this barbell need to have
18 some growth in venture in our program more than we have
19 historically with the larger checks on the other end in
20 order to deploy into the program requirements, but the
21 oversight will be -- has been strengthened for both parts
22 of that barbell.

23 COMMITTEE MEMBER PACHECO: And when you mention
24 the oversight, you're talking about the three major
25 committees that you --

1 CHIEF INVESTMENT OFFICER MUSICCO: Two in
2 particular, the Total Fund Committee -- Management
3 Committee, which would discuss the risk and are we getting
4 paid for the risk and the liquidity, et cetera, and then
5 the Underwriting Committee itself, which is should we
6 underwrite, should we deploy, should we invest in that
7 particular manager or co-investment, et cetera. So we're
8 kind of tackling -- we're looking at them every
9 opportunity through both the risk and investment lens.

10 COMMITTEE MEMBER PACHECO: Excellent. And as I
11 think you mentioned earlier in the con -- in the -- in the
12 discussion, that you would share all -- those two plus the
13 other one that --

14 CHIEF INVESTMENT OFFICER MUSICCO: I chair all
15 three of those committees. In particular, for me, I
16 just -- I want to be held accountable for making sure that
17 these needle-moving decisions that if they're going
18 through that we as a team have decided together and I'm on
19 board for all of them, because I feel it's really
20 important to set that example of being held accountable
21 for those decisions. And so I need to stand by them as
22 much as I'm asking my team to stand by them for those
23 larger decisions.

24 COMMITTEE MEMBER PACHECO: And one more just a
25 procedural thing. You mean -- as you mentioned earlier, I

1 think you said you're going to meet weekly in these
2 meetings and --

3 CHIEF INVESTMENT OFFICER MUSICCO: (Nods head).

4 CHAIRPERSON MILLER: Okay. Very good.

5 CHIEF INVESTMENT OFFICER MUSICCO: The
6 administrative -- the OAC is scheduled for every other
7 Monday, but we can call ad hoc meetings. The other two
8 meetings are held weekly. And we reserve time on both
9 calendars for overflow. So if the Underwriting Committee
10 is really meaty one week, we can use time in the Total
11 Fund Committee and we have a really excellent -- I've been
12 really impressed with the team's commitment to making sure
13 that agendas are -- are created in advance, materials are
14 being distributed, you know, by noon on the Friday, so
15 that we have time by the Tuesday to have completely gone
16 through the materials. We're really rolling up our
17 sleeves for these opportunities that are of a size or of a
18 nature that they need --

19 COMMITTEE MEMBER PACHECO: Right.

20 CHIEF INVESTMENT OFFICER MUSICCO: -- that
21 they're getting floated up to one of these committees.

22 COMMITTEE MEMBER PACHECO: And that impresses me,
23 because as you mentioned earlier, I mean, the time
24 sensitivity to many of these deals they come and go. And
25 if we don't take advantage of them, then we'll -- we lost

1 our opportunity to there.

2 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. The
3 team has shown tremendous commitment. I mean, they showed
4 tremendous commitment doing the 10-year humble lookback.
5 They're showing the same tremendous commitment to doing
6 these weekly reviews of these -- of these companies and
7 also learning. I mean, we all learn from each other every
8 week when we sit in the room and we debate and go back and
9 forth. And that's also a cultural thing that we're
10 building together over time. I'm not going to suggest for
11 a moment that the first few meetings -- you know, they're
12 always going to be -- well, am I supposed to ask questions
13 or am I supposed to poke and prod. We're trying to create
14 this very open dynamic environment to really bring
15 constructive feedback and questions, so that we just make
16 for better investments.

17 COMMITTEE MEMBER PACHECO: Yeah. Thank you.
18 That's -- that's very good. Thank you very much.

19 CHIEF INVESTMENT OFFICER MUSICCO: You're
20 welcome.

21 CHAIRPERSON MILLER: Okay. And next I thought I
22 had Controller Yee, but I seem to have lost you, so if you
23 can hit your button again, I can -- operator error on my
24 part I'm sure.

25 There we go.

1 COMMITTEE MEMBER YEE: Okay. Thank you, Chairman
2 Miller and thank you, Nicole and the team. I really
3 appreciate this presentation, given the overview that you
4 gave us prior to this. And again, the focus on governance
5 couldn't be more important. And it's not just governance.
6 I actually see really some efficiencies that will be
7 realized as well. And I hope for the team and the
8 Investment Office, it's not -- and I just want to say I --
9 I hope there is nothing that comes across as being
10 critical in any of our conversations or deliberations,
11 because I -- in so many ways, you've had to do your
12 respective work almost in a silo. And to be able to
13 centralize just a lot of the internal thinking and the
14 ultimate decision, I like this concept of the Investment
15 Underwriting Committee especially, where there is a
16 central point that everything can come to.

17 So I just wanted to kind of uplift that, because
18 this is tough work. This is tough. And to, you know, not
19 be able to do it and to share, you know, just what you're
20 discovering in your respective areas, and you're doing it
21 in an environment that continues to be highly competitive.
22 And so to be able to give you this flexibility with still
23 the checks and balances I think is exactly kind of the
24 right thing we're -- we should be encouraging to really
25 undergird the path forward as we continue to look at what

1 that -- those elements of that will be.

2 I did have a couple questions. So in that vein,
3 I'm -- I'm comfortable with the staff delegation limits
4 that are proposed, so -- but on the PPO issue. And it may
5 have been just my oversight looking at the various
6 attachments, but is it fair to say or accurate to say that
7 PPOs will be required for each of the areas? I got
8 confused in terms of whether they would be required for
9 the opportunistic strategies.

10 And I appreciated the conversation around how PPO
11 sometimes, particularly the cost and the timeliness of
12 them, can eat into just any benefit that we would be
13 realizing at the end of it, but could you just clarify
14 whether they would be required for the opportunistic
15 strategy.

16 INVESTMENT DIRECTOR DEMING: The Opportunistic
17 Policy has never had any prudent person opinion
18 requirements in the past.

19 COMMITTEE MEMBER YEE: Oh, okay. Okay That's
20 why I got confused. Okay.

21 INVESTMENT DIRECTOR DEMING: Yeah.

22 COMMITTEE MEMBER YEE: Got it. And is there a
23 reason why? Is it the scale or is it kind of just the
24 nature of kind of what those particular strategies are?

25 CHIEF INVESTMENT OFFICER MUSICCO: I think it's a

1 combination of both scale and nature. I think -- I mean,
2 I wasn't here for it, but when it was described to me in
3 the way that I think of our opportunistic bucket, it is
4 for those opportunities that do not fit neatly --

5 COMMITTEE MEMBER YEE: Right.

6 CHIEF INVESTMENT OFFICER MUSICCO: -- within any
7 one silo. So it's difficult to -- if -- if we get -- if
8 there isn't a home for it to reside neatly, it's difficult
9 to see necessarily the need or the value of bringing in,
10 you know, a PPO that will only have a couple weeks time to
11 execute on that -- on that oversight. So we just haven't
12 worked that in, because sometimes they move quickly. It's
13 not a set timeline.

14 COMMITTEE MEMBER YEE: Right.

15 CHIEF INVESTMENT OFFICER MUSICCO: Sometimes
16 they're really large in scale, et cetera. And so it just
17 wasn't contemplated historically. And I am a strong
18 believer that giving us as much flexibility as we can have
19 within that opportunistic bucket is what that bucket was
20 intended for.

21 COMMITTEE MEMBER YEE: Um-hmm. Okay. Okay.
22 That makes sense. And then --

23 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: I'm
24 sorry --

25 COMMITTEE MEMBER YEE: Oh, yeah, please.

1 MS. DEAN: Rose Dean from Wilshire. The
2 Opportunistic program up until now had a significant
3 amount of focus on private debt, which was now created to
4 be obviously a dedicated allocation --

5 COMMITTEE MEMBER YEE: I see.

6 MS. DEAN: -- in terms of private debt
7 allocation. The PPO requirement is now formalized in
8 the --

9 COMMITTEE MEMBER YEE: Private debt. Okay.

10 MS. DEAN: -- Private Debt program to be
11 consistent with Real Assets program. So you will have the
12 PPO requirement in the Private Debt. Opportunistic
13 obviously is not a static allocation anymore, so that
14 doesn't have the requirement that it never did for -- for
15 the PPO requirement.

16 COMMITTEE MEMBER YEE: I see. Okay. Thank you
17 for the clarification. Okay. Thank you.

18 My next question has to do -- let's see, just
19 kind the -- this whole concept of -- of the dilution of
20 CalPERS ownership stake in customized investment accounts.
21 I just want to kind of get a sense of like what kinds of
22 issues that would pose, you know, from a governance
23 perspective or maybe ESG framework. But can -- can you
24 talk about that a little bit.

25 CHIEF INVESTMENT OFFICER MUSICCO: I'm going to

1 have Greg come up and specific -- oh, he's -- I didn't see
2 you at the end there, Greg. Sorry. Go ahead.

3 MANAGING INVESTMENT DIRECTOR RUIZ: Sure.
4 Controller Yee, I just want to clarify the question.

5 COMMITTEE MEMBER YEE: Yeah.

6 MANAGING INVESTMENT DIRECTOR RUIZ: It's about
7 the change in our percentage ownership and customized
8 investment accounts?

9 COMMITTEE MEMBER YEE: Right. Right.

10 MANAGING INVESTMENT DIRECTOR RUIZ: Yeah. So
11 currently it's a hundred percent.

12 COMMITTEE MEMBER YEE: Right.

13 MANAGING INVESTMENT DIRECTOR RUIZ: The thinking
14 there is there may be opportunities where we want to
15 partner with another institution in doing -- in taking on
16 a customized investment account or in working with a
17 partner. And right now, we're restricted from doing that,
18 because we would have to be a hundred percent owner. So
19 it kind of opens up a set of possibilities where we may be
20 able to access high quality managers where there's another
21 high quality allocator next to us and jointly invest. So
22 that's the thinking around that shift.

23 COMMITTEE MEMBER YEE: Yeah. And I -- and I like
24 the -- the flexibility that that affords. I think my
25 question really relates to what happens when we are not a

1 hundred percent owner and with respect to issues like ESG
2 or governance.

3 MANAGING INVESTMENT DIRECTOR RUIZ: Um-hmm.
4 Yeah, I think what you'd see is we would still have a very
5 high level of influence in those situations, much more
6 than we would have when making fund investments, you know,
7 where we tend to be a very small percentage. So I think
8 you would still see us in a very advantaged position
9 relative to funds. Although, we would have some tradeoff
10 around our absolute level of control --

11 COMMITTEE MEMBER YEE: Right.

12 MANAGING INVESTMENT DIRECTOR RUIZ: -- being a
13 hundred percent versus something less than that to pick up
14 opportunities that might be really attractive. Now, it
15 would be in our control to determine which of those we
16 wanted to go into. And so I think we certainly have --
17 you know, we've been working to embed sustainability in
18 kind of how we approach everything. So we have the option
19 of doing it or not doing it up front. And I think you
20 would find the level of governance still extremely high
21 relative to kind of any other part of the program.

22 COMMITTEE MEMBER YEE: Yeah. And I would suspect
23 just the conversation we had earlier about sustainable
24 investing that that would be a consideration at the front
25 end relative to --

1 MANAGING INVESTMENT DIRECTOR RUIZ: Correct.
2 Yeah.

3 COMMITTEE MEMBER YEE: Okay. Okay. Good.

4 And then I'm trying to reconcile this issue. So
5 I think about six years ago CalPERS reduced the number of
6 GPs to 25 or so, and lately has been increasing the -- the
7 number to broaden the pool of potential investors. And so
8 would allowing up to 15 percent of committed capital just
9 to any GP restrict the pool and limit the diversification
10 again?

11 MANAGING INVESTMENT DIRECTOR RUIZ: Yeah. So
12 what we've -- the way we think about it now is we want to
13 have diversification across investment strategies.
14 Managers are kind of one way of thinking of that, but it's
15 an incomplete way of thinking about it. So historically
16 we've been very concentrated in large buyout. And what
17 you've seen over the past number of years is us expanding
18 our exposure to middle market and growth and venture. And
19 we think those give -- that gives us kind of what I think
20 of as real diversification. Those segments may move
21 differently than large buyout. So that's the overall kind
22 of direction of travel.

23 The thinking around increasing that percentage --
24 while overall you are seeing we are having more managers
25 not fewer over the past few years, the thought around

1 doing that is there are times when we are offered
2 co-investments that are large and we're looking to
3 increase that part of our portfolio, that could lead to
4 particular situations where you might have more exposure
5 to a particular manager. We think of that as a positive
6 dynamic, because the co-investments are so fee advantaged
7 relative to everything else that we wouldn't want to limit
8 our ability to take on co-investment with high conviction
9 managers.

10 Now, I think that is one that would be
11 relative -- I don't think that would come up with much
12 frequency, but we wanted to use this opportunity to lay it
13 out, because to not take co-investment alongside our
14 highest conviction managers to me would be -- would not be
15 the direction we're work -- you know, we're working --

16 COMMITTEE MEMBER YEE: Right.

17 MANAGING INVESTMENT DIRECTOR RUIZ: -- to move
18 the program.

19 COMMITTEE MEMBER YEE: Right. Okay. No,
20 that's -- that's helpful to think about diversification
21 beyond just, you know, kind of the manager perspective.

22 And then I think my last question is to you,
23 Sarah. And that is as the infrastructure portfolio
24 becomes more international, and I think what I'm asking
25 here is just as you're coming back to report to us about

1 that, obviously, I think that comes with a lot of --
2 probably more risk and different types of risk. And so
3 just kind of your perspective on that.

4 MANAGING INVESTMENT DIRECTOR CORR: To be clear,
5 the international is developed international that we're
6 asking for an increase to of 10 percent. But we -- we
7 come back annually and give our diversification and it's
8 also in Meketa's semi-annual updates what the
9 diversification is.

10 COMMITTEE MEMBER YEE: Okay. Okay.

11 I'm -- every time we talk about going
12 international, it just makes me nervous, so -- because of
13 just the global risk there, just attendant to anything we
14 -- we do around the globe.

15 MANAGING INVESTMENT DIRECTOR CORR: It would
16 largely European exposure.

17 COMMITTEE MEMBER YEE: Okay. Appreciate that.
18 Thank you. Thank you, Chairman Miller.

19 CHAIRPERSON MILLER: Okay. Thank you. We've
20 been at it quite a while and I've got quite a list of
21 folks with questions, so I think if we could take a
22 15-minute break and then we'll reconvene and come back
23 with Director Middleton's question at that point.

24 (Off record: 11:06 a.m.)

25 (Thereupon a recess was taken.)

1 (On record: 11:22 a.m.)

2 CHAIRPERSON MILLER: Okay. Let's reconvene.

3 Let's call the Investment Committee back to order.

4 And the next person I have is Director Middleton.

5 Let's see if we can get you.

6 I got --

7 COMMITTEE MEMBER TAYLOR: You need to call it to
8 order, because we're not -- people are still talking.

9 CHAIRPERSON MILLER: Okay. No everyone has
10 stopped talking, because I'm whispering.

11 Okay. Lisa, you have the floor.

12 Oh. Okay. Just hit your button again. There
13 you go.

14 COMMITTEE MEMBER MIDDLETON: Okay. Thank you. I
15 think Controller Yee hit on the first question that I
16 wanted to ask, but let me do a little follow-up. As we go
17 back to the meeting that we had in July off-site, clearly
18 geopolitical risk was highlighted. One only has to open
19 the newspaper to see how big of an issue it is. That does
20 give some pause when we start to think about increasing
21 the amount of infrastructure exposure we have on a global
22 basis. So, reaction.

23 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. I'll
24 have Sarah give a bit more of the detail I guess into the
25 go-forward. But I think big picture, I've -- I've been

1 pushing our team really hard to make sure that we think
2 through a global lens, because we are a massive program
3 and we have a lot of work to do to hit our objectives.
4 And so we're going to be thoughtful and measured, but I
5 think it would -- it behooves us to do the work to come to
6 conclusions that are, you know, a combination of
7 experience, a combination of where our views are going
8 forward, not taking kind of the current emotion around,
9 but really thinking through a long-term patient investing
10 lens.

11 And so for asset classes like infrastructure, we
12 are going to need to look farther afield than just North
13 America. I think where we'll spend a great deal of time
14 is understanding the jurisdictions that we're talking
15 about and the partners, probably more importantly the
16 partners that we're going to find ourselves aligning with,
17 but we're going to do that work.

18 And part of us having again this new Governance
19 Committee is my hope -- and, yes, I took the comments
20 earlier around us expanding our diversity of thought,
21 diversity, you know, around the table. My hope is that by
22 having more diversity of thought and experience around the
23 table, we'll start to make better educated decisions and
24 make sure we're taking the right risk-adjusted decisions
25 at the end of the day.

1 But I wouldn't want to give this Board the
2 impression that we're not thinking through a global lens
3 at all times, because we -- we must. And so we'll be
4 thoughtful and we'll make sure that for each of the
5 strategies -- frankly any of these strategies going
6 forward, we want this to be a dialogue with the Board and
7 to get perspective, to get -- the last thing I want you
8 ever to do is open up the paper and be surprised at a
9 broad strategic move that we've made without, you know, at
10 least doing the educating and brining everyone along for
11 the -- for the -- for the whole experience.

12 MANAGING INVESTMENT DIRECTOR CORR: I would just
13 add to that, that the request that we're asking is for
14 developed markets. There are further restrictions on
15 emerging markets, of 0 to 15 percent, and 0 to 5 percent
16 on frontier markets. And we're also leaving the -- at the
17 real assets level, we're leaving it at the current
18 restriction, so we're essentially limit -- limiting the
19 ability to do international real estate and giving up to
20 get the ability to do international infrastructure.

21 COMMITTEE MEMBER MIDDLETON: All right. You
22 know, I think that's helpful, but clearly as we move
23 toward, there's going to need to be a recognition of the
24 geopolitical risks. And that needs to be fully a part of
25 all of our assessment as we look at investments going

1 forward. All of that said, I'm very pleased to hear that
2 infrastructure is going to be something that we're looking
3 to increase rather than see diminish.

4 So lastly, with -- really this more a comment
5 than a question. I, frankly, appreciate the need to
6 perhaps limit some of the number of PPOs that we get in
7 order to become more efficient. But the other side to
8 that is those PPOs that we are looking at need to become
9 much more consequential as we move forward.

10 Thank you, Mr. Chair.

11 CHAIRPERSON MILLER: Okay. Thank you.

12 Next, Director Willette.

13 COMMITTEE MEMBER WILLETTE: Thank you so much,
14 Chair Miller. And I first want to say thank you so much
15 for this thoughtful presentation. I'm actually really
16 excited about innovation and changes we need to deliver for
17 our beneficiaries. And I understand cultural change is
18 very difficult, and matching practical steps is not easy,
19 so I also applaud and support those efforts.

20 That being said, you know, we're accountable to
21 two million members on these decisions. And I think
22 it's -- it puts the Board in a difficult position to
23 explain to our members why we're going to give increased
24 delegated authority at this time. It's our fiduciary duty
25 to be prudent, to be careful in these decisions. So I am

1 cautious about providing more authority or delegation
2 until we see how some of these changes and especially the
3 cultural changes kind of shakeout.

4 I think something that would help me would be
5 just understanding -- you stated that there's a lot of --
6 we're seeing larger and more -- more deals happening. And
7 I'm -- I'm wondering how many deals have we lost out on,
8 for example, and not just quantity but maybe volume.
9 Where would we be if we had at various tiers, right?
10 Instead of going from what we have now to what's proposed,
11 what -- what would be in between and what that would mean
12 in terms of timelines? Like I said, how many deals we
13 lose out on, how much return for our members do we lose
14 out on?

15 As I stated, I'm just a little cautious without
16 there being maybe assurances or conditions on the
17 increased delegation.

18 Any thoughts, I'd appreciate it.

19 CHIEF INVESTMENT OFFICER MUSICCO: Thank you for
20 the comments. Let us go back and just do a bit of
21 digging. I think it's one of those things, we don't know
22 what we don't know. Right now, we're not perceived in the
23 market as being a first call for some of the larger
24 transactions, because of our current delegated authorities
25 or our inability to say when someone calls can you stand

1 up for this capital if went through your own internal
2 processes or does it require Board approval, et cetera.
3 So we'll have to do some theoretical work for you, but
4 understand, you know, you'd like to have a view into that.

5 My hope is that this added governance model that
6 we've put in place for ourselves helps a lot to build up
7 that -- that trust, just knowing that we have that
8 additional oversight. I also hope that us continuing to
9 demonstrate that we're going to bring you along for our
10 thinking, the whys, not just the -- the lookback and say
11 this is what we did, hope you like it, that we're going to
12 be bringing this Board along more as we think through some
13 of our strategies.

14 I hope that today, you know, you leave knowing
15 that I'm absolutely holding myself accountable as well as
16 the rest of the team for decisions going forward. We've
17 got these nine business objectives that ultimately at the
18 end of the year we'll look at each other and say are we a
19 success or are we not? And each of us is going to own
20 those together. Again, it's anecdotal, but it hopefully
21 is starting to show you a bit of the culture that we're
22 building.

23 And I have to say I don't think it's anything
24 new. I think this culture has been percolating for some
25 time. I think that without having a CIO in place for a

1 period of time, the team was waiting to have -- because if
2 that wasn't the case, then I would not have had the buy-in
3 that I've had so quickly out of the gate for all of these
4 new approaches.

5 You know, as -- as was pointed out, when you've
6 been able to operate for a number of years in a silo and
7 suddenly somebody says, hey, despite what you're so-called
8 allowed to do, I need to be discussing this stuff with you
9 on a frequent basis, the natural reaction for many, if
10 they didn't believe in this cultural change or if they
11 didn't believe that this was the right direction, would
12 have been -- would have been to have pushback. And I've
13 had nothing but support on the matter.

14 So again, I -- I hear where you're coming from.
15 I think -- I'd go back to we're really asking for kind of
16 a practical math ask in order to execute on the strategic
17 asset allocation that we're now fortunate to be able to
18 execute on on behalf of the beneficiaries. Without some
19 of the movement in these numbers, we just -- it -- we just
20 frankly will be having different conversations with the
21 Board, which will be we aren't able to deploy in the way
22 we need to in order to hit those objectives, because of
23 the math of the practicalities. But we can certainly come
24 back for the next read and make sure that you have a good
25 understanding of the building blocks, or maybe said

1 differently, in theory the types of transactions in the
2 marketplace that should be becoming to us that we're maybe
3 not getting a call on. So let -- we'll get creative to
4 come back to you on -- with some of that. I don't know if
5 Greg or Sarah if you guys have anything -- any other
6 anecdotes to add to that, but that's the best I can think
7 of to do that exercise.

8 MANAGING INVESTMENT DIRECTOR CORR: I guess some
9 of the anecdotes I could add, almost all the
10 infrastructure investments have had to be approved by the
11 CIO, because they exceed my delegation, and that causes,
12 you know, some -- some delays. And there are a few
13 transactions that even exceeded the CIO's delegation that
14 we had to scale back on, because of the capping out at two
15 billion on the infrastructure side.

16 COMMITTEE MEMBER TAYLOR: Well, it would be good
17 to see that.

18 COMMITTEE MEMBER WILLETTE: Thank you so much.

19 CHAIRPERSON MILLER: Yeah. Thank you. And,
20 yeah, and we'll consider that Committee direction to come
21 back with some further illumination in that regard.

22 Great. Thank you.

23 Next we have President Taylor.

24 COMMITTEE MEMBER TAYLOR: Thank you, Chair
25 Miller.

1 I forget a couple of things. One was I want to
2 ask the value-add of -- I already know the value-add.
3 You've said it several times of our governance -- these
4 governance committees. I guess what I'm looking at also
5 that I forgot to ask was how do you feel about the
6 limitation it may impose on deal time frames?

7 CHIEF INVESTMENT OFFICER MUSICCO: Yeah.
8 We've -- we're making sure in part of putting these in
9 place, the deal time should not feel -- these are being
10 run in parallel with the time line that the deal team is
11 already on. And so it's just adding on an extra set of
12 eyeballs. It's -- there -- it's no more information.
13 Frankly, what comes forward to this Committee in my mind
14 is table stakes. It's more that we as a team get to
15 decide together on these needle-moving opportunities. So
16 work that's being done, the input from the consultants,
17 the input along the way from the deal team is already
18 happening. And if anything, by having a preview or an
19 additional set of eyes within this committee, we're asking
20 that team to go back and sharpen their pencil -- pencils
21 in a few areas, whether it's around, you know, what's the
22 bigger opportunity, what's the partner dynamics, what kind
23 of governance will we get, are we weaving in
24 sustainability to the extent that we should be in our
25 thinking, et cetera. So this won't slow us down, because

1 it's being run in parallel.

2 COMMITTEE MEMBER TAYLOR: Okay.

3 CHIEF INVESTMENT OFFICER MUSICCO: It's just
4 giving us more belts and suspenders on decision-making.

5 COMMITTEE MEMBER TAYLOR: So basically as the
6 deal starts, then they come to the committee with the new
7 deal before it's really even come to fruition.

8 CHIEF INVESTMENT OFFICER MUSICCO: The way --
9 yeah.

10 COMMITTEE MEMBER TAYLOR: It's not like a later
11 thing.

12 CHIEF INVESTMENT OFFICER MUSICCO: No, it's not.
13 I mean the way that it works practically, Theresa, is if
14 something is -- falls within the realm of needs to come
15 forward, there's a heads-up memo and that's really a
16 discussion. Here's the opportunity, here's the partners,
17 here why -- here's why we like it, here's why we think the
18 resources should be - meaning people resources - why we
19 should be spending time.

20 What -- are there any objections? Are there
21 anything we should be considering? And it's been amazing
22 to see the dialogue, because we have so many different
23 perspectives around the table. Maybe James is bringing up
24 a labor issue, maybe, you know, Sarah is bringing up a
25 jurisdiction, maybe Greg is saying, oh, we have partners

1 who are excellent in investing in that sector. We should
2 be leaning into it. And so now the dialogue is suddenly
3 becoming, you know, really thorough and it's arming that
4 deal team with so much more perhaps than what they would
5 just have in their own committees. And again, those
6 committees continue. It's just this is an extra side
7 piece that is happening alongside or in parallel.

8 COMMITTEE MEMBER TAYLOR: I really like the
9 communication. I think that's excellent. I love seeing
10 more communication, not less obviously, so I'm very
11 pleased about that and thank you for the explanation. I
12 wanted to -- I don't know how to say this without maybe
13 making some folks mad, but does this cause us to maybe
14 need more meetings for Investments, because it sounds like
15 as deals are coming through, we're going to be needing to
16 know this or are you going to just -- are we going to have
17 emails?

18 CHIEF INVESTMENT OFFICER MUSICCO: I think -- so
19 there's a couple things. The pipeline we're -- the
20 pipelines, we're cleaning up our pipeline review to make
21 sure that they're thorough and we're adding a few more
22 columns. We're adding more information in those regular
23 way pipelines that you already see. I think we tried on
24 for size in the last Board meeting, when we do that
25 roundtable -- the round robin of each of the asset class

1 heads, where historically we've discussed managers, the
2 intent now of having some of that is in confidence,
3 because these things will be confidential matters. It
4 gives us a moment to say, hey, we're thinking about
5 opportunities XYZ. Stay tuned.

6 I know that you have the opportunity to be in
7 dialogue with Marcie on a frequent basis. And so I've
8 committed to Marcie that she not ever be surprised by
9 opportunities that we're looking at. And, I mean, we have
10 big ambitions to really grow our co-investment program.
11 But at the end of the day what limits us is just the
12 hands, and eyeballs, and feet. So, I mean, it's that --
13 we're very ambitious and we'll work towards it, but this
14 will be a ramp-up. It won't be kind of hurled at you all
15 at once.

16 COMMITTEE MEMBER TAYLOR: Okay.

17 CHIEF INVESTMENT OFFICER MUSICCO: And so we'll
18 make sure that we use the tools that we currently have.
19 We'll make sure we use that time we have with you during
20 our quarterly meetings to flag for you any opportunities.
21 And I'll make sure I use the communication channels I have
22 with Marcie and you have with Marcie to keep you up -- up
23 to speak on things.

24 COMMITTEE MEMBER TAYLOR: Okay. That would be
25 awesome. And then my last thing I think I'm going to jump

1 on with what Ms. Middleton and Ms. Yee said, which is
2 infrastructure is a totally different deal than the real
3 estate that we were -- so I'm just making sure we don't do
4 Russia. That's all, so back at you.

5 All right. Thank you very much.

6 CHIEF INVESTMENT OFFICER MUSICCO: Thank you.

7 CHAIRPERSON MILLER: Okay. Thank you. Next, we
8 have a question from Director Pacheco.

9 Let's try it again.

10 There we go.

11 COMMITTEE MEMBER PACHECO: All right. Very good.
12 Thank you. Thank you, Nicole. All right, so my question
13 is -- it's actually back to Board Member Willette and also
14 with Theresa regarding the -- the alignment of the
15 enhanced governance framework. And actually, with respect
16 to the Total Fund Management Committee, and the Investment
17 Underwriting Committee, and the reporting aspect, you
18 know, of going back to the Board like, you know, where
19 we're providing you all these additional tools, you
20 know -- you know, hopefully, and -- but I want to know how
21 you will be report -- reporting that information back to
22 us, so that we can, you know, see we have some, you know,
23 high level, you know, oversight on -- on this new process?
24 Can you elaborate on that?

25 CHIEF INVESTMENT OFFICER MUSICCO: Yes,

1 certainly. So for the Total Fund Management Committee,
2 the team has been working quite diligently providing me
3 with a CIO dashboard, as we work on this together, the
4 things that are pertinent, and relevant, and on my mind.
5 And so the thought is once we work the kinks out and
6 hopefully in the timing for November when we start to
7 introduce some of these new concepts to the Board, that
8 will end up being a regular tool that we'll share with
9 you, so that you know -- you're looking through my lens
10 and you know what's on my mind, and we'll work on that
11 together.

12 And again, those are the types of opportunities
13 we have to work on it together, because you might say you
14 know what, Nicole, I'd like a bit more of a deeper insight
15 into how much of your pipeline is specifically into
16 emerging markets, and how -- you know, what does that flow
17 look like, and who are the trusted partners. I mean,
18 there's -- part of our data and tech strategy is to make
19 sure that we are using the bits of data to be better
20 decision-makers, but also to be able to share how we make
21 those decisions with the Board and with the rest of the
22 executive team frankly.

23 So my hope is that we're -- we are -- we're
24 thinking through that exact same lens that you are,
25 whereas sharing with you how we think and how make

1 decisions only benefits all of us, so that no one is
2 surprised.

3 COMMITTEE MEMBER PACHECO: And -- and do you
4 think that gathering this data is a -- is a -- would it be
5 difficult or do you -- or do you foresee any road blocks?

6 CHIEF INVESTMENT OFFICER MUSICCO: Most of the
7 data exists. I think that we could invest and need to
8 invest in different tools to maybe integrate where the
9 data is today. I think that there are certainly tools in
10 the market that help us with more user-friendly reporting
11 of that data that we have that exists and make us more
12 efficient.

13 And so we're right in the midst of thinking about
14 our broader investment tech strategy. We have technology
15 in lots of pockets. We've got world class technology and
16 technology leaders. It's just a matter of us pulling it
17 together through the lens of the INVO team and saying what
18 have we got, what should we be leveraging, where could we
19 maybe be more efficient --

20 COMMITTEE MEMBER PACHECO: Right.

21 CHIEF INVESTMENT OFFICER MUSICCO: -- both
22 through a spend perspective, but also return on effort
23 perspective on where the data sits, how we use it, how we
24 share it, and make decisions with it.

25 COMMITTEE MEMBER PACHECO: Oh, excellent.

1 That's -- thank you very much for that information.

2 CHAIRPERSON MILLER: Okay. Thank you. And I
3 don't see anymore requests to speak from the Board. We do
4 have a request to speak from a member of the public who's
5 in attendance on 5B, so I'll call Alyssa Giachino up to
6 the podium. And if you would introduce yourself for the
7 record. And then when you start speaking, your time will
8 start, and be displayed on the little clock there.

9 MS. GIACHINO: Good morning. Can you hear me?

10 Morning, Chair and Committee members. Alyssa
11 Giachino with the nonprofit Private Equity Stakeholder
12 Project echoing some of staff's remarks. The growth in
13 private markets is transforming finance, but large players
14 like private equity are hardly regulated and exempt from
15 most financial disclosures, leaving regulators with more
16 blind spots concerning the risks buyouts -- buyout firms
17 might pose, Bloomberg recently reported.

18 Private equity firms have invested over a
19 trillion dollars in the energy sector since 2010. The
20 lion's share of these investments have been in
21 conventional forms, like oil, gas, and coal. And in many
22 cases, dirty assets that public companies have offloaded.
23 Private equity's lack of transparency obscures the hazards
24 these investments pose to investors in the public, an
25 important considerations as you look at scaling up. We're

1 looking forward to hearing more from staff on sustain --
2 how sustainability is integrated into these private market
3 policy changes and the governance structure.

4 Last week, we released a private equity climate
5 risk scorecard, the first of its kind, that ranks eight
6 large private equity buyout firms based on metrics around
7 their energy holdings and emissions, as well as their
8 climate pledges. The scorecard was developed by the
9 Private Equity Stakeholder Project and Americans for
10 Financial Reform.

11 The rankings include several private equity
12 managers that CalPERS invests with. The Carlyle Group
13 ranks last with an F grade due to its surpassingly dirty
14 portfolio fossil fuel holdings and weak climate policies.
15 Following it are Warburg Pincus, KKR, Brookfield and its
16 subsidiary Oaktree, Ares, Apollo, Blackstone, and TPG.
17 The billions of dollars that private equity firms have
18 deployed to drill, frack, transport, store, refine fossil
19 fuels, and generate energy stand in stark contrast to what
20 climate scientists and international policymakers have
21 called for to limit our trajectory to a 1.5 degree Celsius
22 warming scenario.

23 With the scorecard, we've developed a set of
24 demands that -- for the private equity industry that seek
25 to ensure alignment with science-based targets, disclosure

1 of direct and indirect emissions, environmental impacts,
2 energy transition plans, political spending, and climate
3 lobbying, and integration of climate environmental justice
4 with the communities impacted by the climate crisis.
5 These demands were endorsed by 13 organizations, including
6 the Action Center on Race and the Economy, Friends of the
7 Earth, National Resources Defense Council, Public Citizen,
8 and others.

9 We encourage CalPERS to engage your private
10 equity and infrastructure managers to ask them how they
11 will ensure that their portfolios are aligned with
12 science-based targets, that they transparently report
13 energy holdings and all emissions, and work with impacted
14 communities and workers on a just energy transition.

15 Thank you so much.

16 CHAIRPERSON MILLER: Thank you for your comments.

17 MS. GIACHINO: And I have copies of the report to
18 share. Thank you.

19 CHAIRPERSON MILLER: Okay. I have no more
20 requests to speak, and so that will conclude this item.

21 And we will move on to 5C, CalPERS trust level
22 review and annual program reviews with a great big thank
23 you to the team for putting together and presenting the
24 last item and all the informative discussion.

25 (Thereupon a slide presentation.)

1 CHIEF INVESTMENT OFFICER MUSICCO: Thank you very
2 much. We're just going to have a few of my colleagues
3 come up and join me at the table here.

4 CHAIRPERSON MILLER: Wonderful.

5 CHIEF INVESTMENT OFFICER MUSICCO: We have
6 Lauren, Simiso, Arnie, Greg, and Sarah joining for this
7 presentation.

8 So this is our semi-annual trust level review
9 with a deep dive of each of the individual program
10 performance each September. And so I'm really pleased to
11 be able to have myself with my colleagues up here today to
12 dig into each of the programs. We'll have -- Lauren will
13 first come up to describe and walk through some of the
14 more macro issues ahead of us right now. And then we will
15 get into each of the individual pieces of -- of our
16 program. The hope is by the end, you'll have a very good
17 understanding of what the -- the role is and
18 responsibility of each of the programs, how it's -- how
19 it's performed in this past year, some of the strategies
20 or ideas that we're thinking about going forward, how
21 we're weaving sustainability into those programs, and then
22 again a frank look at what's worked and where we need to
23 take the program.

24 I'll do a quick high level snapshot before
25 handing it off to the rest of my team. And then towards

1 the end, we will leave time again for questions.

2 So maybe without further ado, since we've had a
3 great session in the previous two, I'll just pass it right
4 over to Lauren to give us a high level market overview.

5 --o0o--

6 INVESTMENT DIRECTOR ROSBOROUGH WATT: Thank you.
7 Lauren Rosborough Watt from economics. Thank you for
8 having me here today. It's a pleasure. Thank you,
9 Chairman Miller.

10 What you'll see on the slides -- there are more
11 slides that I typically bring to the Board. I'm not going
12 to speak to everyone and skip through, but if you move to
13 slide five, that's where I'm going to spend the majority
14 of my time --

15 --o0o--

16 INVESTMENT DIRECTOR ROSBOROUGH WATT: -- talking
17 about the current stance of the global and U.S.
18 macroeconomy and the balance of risks going forward. And
19 the following four slides for your interest related to
20 this discussion.

21 So the current stance of the global macro
22 environment can be characterized as one of slowing global
23 momentum, and in some reason -- regions quite rapidly, and
24 an increase in macroeconomic uncertainty. The U.S. and
25 global economies are slowing from their post-pandemic

1 search, which I'm sure you all know about. It continues
2 to experience supply chain disruptions, although these are
3 dissipating.

4 The global labor market remains tight compared
5 with both the pre-pandemic levels and also the post Global
6 Financial Crisis, so post-2008 levels. And the world is
7 experiencing more pronounced and explicit geopolitical
8 tensions than what we've seen in a number of decades.

9 So it's the culmination of these shocks that's
10 resulted in the price pressure or the inflation that we
11 see today. You know, U.S. personal consumption
12 expenditures index are the Federal Reserves preferred
13 inflation measure, last printed 6.3 percent on the year,
14 headline inflation is higher than that. In the UK,
15 headline inflation just recently slipped below 10 percent
16 per annum. And in Europe, inflation is anticipated to
17 breach nine percent by the end of this quarter.

18 And the consequence of that, in order to maintain
19 price stability, central banks globally are now embarking
20 on the fastest pace of policy tightening that we've seen
21 since the late 1970s.

22 Central banks have certainly expressed the need
23 or the desire to bring aggregate demand closer to
24 aggregate supply in order to dissipate these price
25 pressures. And what we know historically is that when

1 central banks are committed to bringing price pressures
2 back towards their target that they've been successful in
3 doing so.

4 Relatedly, quantitative easing and quantitative
5 tightening, so the cessation of quantitative easing to be
6 clear and quantitative tightening increases uncertainty.
7 So together, macroeconomic volatility, greater household
8 uncertainty and risk aversion has weighed on asset prices
9 and asset returns.

10 When we look forward from a cyclical or a
11 business cycle perspective, the balance of risks continues
12 to be tilted towards tighter financial conditions going
13 forward and weaker growth in particular in the near term.
14 In deed, many analysts are anticipating recession in
15 Europe by the end of this year, and some analysts are now
16 expecting a recession in the U.S. in early 2023.

17 I want to take a step back briefly and talk just
18 a little around the shocks that we've seen. Pandemic,
19 supply chain, high inflation, conflict, these are things
20 that the global economy has experienced in the past. But
21 the combination of these shocks in such a tight time
22 period is definitely unique. There are some similarities
23 and some differences, but I think it's fair to say that
24 the unusual -- unusual and sizable nature of these shocks
25 has impacted on financial market and asset price returns

1 over the last year.

2 I'm going to take an extra step back again and
3 bifurcate a little bit from the short-run to the long-run.
4 Part of our role is to consider -- consider how the
5 macroeconomy and changes in the structure, whether that
6 changes long-run relationships. And I brought a number of
7 open questions to you around 18 months ago. At that
8 point, it was just after the pandemic saying here is a
9 number of questions that we might want to think about and
10 investigate about whether the structure of economy has
11 changed going forward. I'm just going to bring forward
12 three at this point in time.

13 One of them was monetary policy. And I think
14 it's fair to say that quantitative easing thousand is a
15 sort of stand -- a part of the standard toolkit that
16 central banks use now going forward. And that has an
17 impact on cross-correlations of assets and also on the
18 asymmetry of downturns now that central banks can move
19 beyond the zero lower bound of interest rates and continue
20 to ease policy, if necessary.

21 Another question we presented was on inflation.
22 And the salient point here is that high inflation and low
23 growth is an unusual state of the world. Although, we
24 have seen it before.

25 And I think it's important to draw out that

1 inflation by definition is a transitory state. It is a
2 rate of change in prices over time. And when central
3 banks are committed to ensure that inflation remains
4 within their target, typically around that two percent
5 level on an annual basis that they can do so in the near
6 term, but, of course, this is transitory. Once inflation
7 pressure have dissipated, central banks will, you know,
8 take their proverbial foot off the brake and ease
9 tightening policy going forward.

10 And the final relationship is whether the drivers
11 of long-run interest rates - and we've spoken about this
12 with you before, three of them population, demographics,
13 globalization - whether these drivers of long-run interest
14 rates have changed.

15 The pandemic I would say has brought to the front
16 of mind the impact of these delicately balanced supply
17 chain linkages and relatedly deep globalization. And we
18 have seen some evidence of onshoring globally. And we
19 do -- you know, we have seen also some discussion around
20 conflict around globalization within some global
21 economies.

22 So these are always potential future states of
23 the world that we consider. But in the near-term the
24 probabilities around those have changed somewhat.
25 Deglobalization in particular has permanent effects on

1 both the U.S. economy but also the global economy and how
2 it functions.

3 So I think my three main talking points here
4 today was to highlight to you where we've been over the
5 past year. What, in terms of the business cycle, the
6 cyclical effects look like, the balance of risks going
7 forward. The second one was to highlight once again the
8 unusual nature of the shocks and the combination of the
9 shocks that we've seen in the last two years, but also
10 over the last year. And the final one was to -- to
11 highlight to you how we think around some of these impacts
12 and whether that has permanent effects on the economy and
13 what that means for both the global economy, but also for
14 our portfolio going forward.

15 Thank you for your time today.

16 CHIEF INVESTMENT OFFICER MUSICCO: Thank you,
17 Lauren.

18 So from here, if we can move the page forward,
19 please to page -- do you have the clicker. Just to the
20 table of contents.

21 --o0o--

22 CHIEF INVESTMENT OFFICER MUSICCO: There we go,
23 for trust level highlights.

24 So as we said, today I will give a brief
25 overview, some of which we've talked on already, and then

1 we'll dive right into each of the program reviews and then
2 come back with some questions.

3 If you could turn to the next page, please.

4 --o0o--

5 CHIEF INVESTMENT OFFICER MUSICCO: So we saw a
6 brief version of this earlier today. As we know, that the
7 PERF ended the year down negative 6.1 percent, which was
8 the first negative fiscal year return since fiscal year
9 '09. And as mentioned, the market value was down almost
10 30 billion from June 30th, 21st, and down 62 billion
11 approximately from its height around the end of calendar
12 year 2021, including that negative one-year return.
13 However, the 10-year PERF return -- return of 7.7 percent
14 does exceed the actuarial discount rates in effect for
15 most of the period, but that discount rate was lowered
16 recently from 7.75 percent to 6.8 percent over the 10-year
17 period.

18 Next slide, please.

19 --o0o--

20 CHIEF INVESTMENT OFFICER MUSICCO: And so as we
21 touched on earlier, this cone chart shows that the PERF's
22 cumulative total return from July of 2018 to June of '22
23 relative to the return and volatility expectations under
24 the strategic asset allocation have been well within those
25 expectations. We have experienced less risk than

1 experienced and we've also earned lower returns on
2 expected. And we saw this chart briefly in the last
3 presentation.

4 Next slide, please.

5 --o0o--

6 CHIEF INVESTMENT OFFICER MUSICCO: When we dive
7 into the asset classes themselves and we'll get into this
8 in each of the programs more deeply, you'll see that the
9 private asset -- private assets, private equity, and real
10 assets have been amongst the highest performing asset
11 classes for all periods.

12 Private equity has been the highest performing
13 asset class across all longer term periods i.e., the
14 three-, five-, and 10-year. Really, the one-year return
15 of negative 6.1 percent was driven by the negative
16 performance of our public asset programs, i.e. the public
17 equity and income programs, which was only partially
18 offset by the large positive returns of the private assets
19 programs.

20 Growth assets, again that would be considering
21 both public equity and private equity, were the primary
22 drivers of the five-year return. The two growth asset
23 classes contributed 80 percent of our positive 6.7
24 five-year return, but only account for just under 60
25 percent, or 58 percent, of our asset allocation. And all

1 programs have made positive contributions to the five-year
2 returns.

3 Next page, please.

4 --o0o--

5 CHIEF INVESTMENT OFFICER MUSICCO: In summary,
6 when we look at our -- the total fund excess return by
7 assets -- by asset class versus the benchmark, we do see
8 that the PERF has a positive excess return for all the
9 periods of 10-year, five-year, three-year, and one-year,
10 with private equity again experiencing the largest excess
11 returns over most periods with the most recent one-year
12 performance of 1,297 basis points.

13 And again, this has really been the driver of
14 PERF's excess returns in most recent periods, whereas real
15 assets have had negative excess returns across these
16 periods.

17 Next page, please.

18 --o0o--

19 CHIEF INVESTMENT OFFICER MUSICCO: So the total
20 fund risk summary. As we said, we're going to start
21 using -- going forward in November, we'll start using the
22 Board meeting to dig a lot deeper into our risk profile.
23 The total fund tracking error is 1.63 percent, while the
24 actionable tracking error, which I believe is a metric
25 that got introduced just a couple years ago capturing all

1 our public market strategies and our allocation
2 management, is just as 0.1 percent.

3 I mean, the message here that we discussed
4 earlier is that we've -- have very low actionable tracking
5 error, very act -- low active risk being taken in the
6 portfolio. The beta of 1.1 reflects a higher risk posture
7 of the total fund verse -- versus our policy benchmark,
8 which again is also validated by the higher portfolio
9 volatility of the 12.9 percent that you see versus the
10 benchmark volatility of 11.7.

11 We saw and we've discussed that the fund has an
12 underexposure to U.S. assets versus its benchmark. And
13 the highest contributor to our actionable tracking error
14 has, in fact, come from our credit related spread factors
15 versus any other area.

16 Next page, please.

17 --o0o--

18 CHIEF INVESTMENT OFFICER MUSICCO: When we think
19 about risk, it should be no surprise that our total fund
20 volatility is really dominated by -- from our
21 growth-sensitive asset classes, such as our cap-weighted
22 program, which is about -- just over 40 percent
23 contribution to the risk, our factor-weighted program at
24 15 percent, and then private equity at 25.3 percent
25 contribution to our fund volatility.

1 The treasury segment acts as a volatility
2 diversifier. So it has a negative contribution of 0.4
3 percent to the total volatility. And in terms of tracking
4 error, as we had mentioned earlier, the majority is coming
5 from private assets, with private equity almost at 80
6 percent of that tracking error and real assets just at 18
7 and a half percent. The final page that I'll touch on
8 briefly is just over -- overseeing our investment expenses
9 on the next page, please.

10 --o0o--

11 CHIEF INVESTMENT OFFICER MUSICCO: This is just
12 to summarize our internal versus external investments and
13 the cost of those programs demonstrating the trend line,
14 if you will, of the total external management fees as well
15 as our internal or investment admin costs. Our
16 implementation style of having more internally managed
17 funds has certainly shown to be an advantage when we're
18 looking at our CEM benchmarking ing comparison peer group.
19 But as we grow into that co-investment program and doing
20 more deals with external managers, you can expect the
21 trend line for external managers to continue to increase
22 over time. But overall, our administrative and investment
23 operating costs have remained relatively flat.

24 Next slide, please.

25 --o0o--

1 CHIEF INVESTMENT OFFICER MUSICCO: So today,
2 where we hope we're able to have an open dialogue with
3 this -- with the Board is really to look at two buckets,
4 number one, what's worked, and number, two our areas for
5 refinement. As you know, the ALM cycle completed the
6 adoption of our new strategic asset allocation in
7 November. We've added new asset allo -- asset classes,
8 such as private debt and emerging market sovereign debt.
9 We've introduced leverage to improve portfolio
10 diversification. We have some key hires in place, myself
11 coming on board and we're in the market for a few other
12 key hires to make sure that we're executing on the
13 strategy.

14 And so we do -- and we as discussed earlier, we
15 feel like in the market right now, we are very well
16 positioned to take advantage of market dynamics for
17 finding real value in expanding our co-investment program
18 just to name a few. But as we've also discussed today,
19 there are a number areas for refinement and there's a
20 number of areas when we look back, we need to do more
21 work. We need to make sure we have the resources in
22 place, the right appropriate strategies, and we need to
23 make sure we're constantly communicating with yourselves
24 and our stakeholders on our intentions around that.

25 And so while we -- while private equity and real

1 asset allocations are now at -- are near our long-term
2 targets, we do need to continue to deploy into private
3 assets consistently and in a disciplined manner based on
4 our lessons learned.

5 Our people strategy, I said it earlier, our
6 assets go up and down the elevators each day. And so we
7 have a real requirement and need -- a real priority around
8 making sure we're attracting, retaining, and equally
9 important just developing the talent that we have in
10 place. We have -- you know, one of the real -- people
11 often ask, you know, what were some of the pleasant
12 surprises. One of the real surprises to the upside for me
13 when I arrived here was just the breadth and depth of the
14 bench strength that we have here. I think continually
15 developing our skills though and sharpening our pencils
16 and learning. As the market changes around us, making
17 sure we're staying ahead of that is really important for
18 our existing team in addition to bringing on additional
19 talent. So we're very focused on that.

20 And I need to make sure that we are -- that we
21 are incentivized to perform, that we are incentivized and
22 to be held accountable. And so we're working through
23 that. Part of that, as I said, is to take a much deeper
24 dive on how we think about whether we are being paid for
25 the risk we are taking, having a better system in place

1 for monitoring our programs and holding ourselves
2 accountable for that. So that really all falls underneath
3 people strategy, and which is why it's one of our nine
4 core business objectives.

5 I mentioned earlier one of the questions about
6 technology and innovation. We need to build this culture
7 of innovation. We have a few programs in place, but I
8 think exposing our team and bringing real thought leaders
9 that are our current partners or thought leaders that are
10 potential partners in the tent, so to speak, to help drive
11 skill development within our team to introduce new
12 innovations, for us to be open-minded to hear out what
13 other groups are doing. We've got a large group that's
14 going to tour the Canadian pensions, for example, in a few
15 weeks where we're going to learn from our peers in Canada
16 everything from what they're doing with technology, what
17 they're doing with risk management, what they're doing in
18 the investing world. Being open-minded to learn from
19 others and to learn from each other I think is part of our
20 cultural evolution here that we're really working hard
21 towards.

22 The improved governance model, we've -- we've
23 spent some time on it. But just based on the questions,
24 we'll do a better job at making sure you really understand
25 what exactly it is that we're doing within those

1 committees and why we think it's making us better
2 decision-makers. And so we'll take the opportunity to
3 give you examples of -- opportunities that come in, we'll
4 share with you our experience of here is a heads-up memo
5 that caused us pause and we said no thank you. Here's a
6 heads-up memo, where we said we need to do more work and
7 where we pivoted to partner with another partner. We'll
8 bring along for that journey when we have the opportunity
9 to have some of those one-on-one times to make sure that
10 you're very clear on why we think we've got better mouse
11 trap as far as decision-making and governance.

12 And so, what I'd like to do -- next page,
13 please --

14 --o0o--

15 CHIEF INVESTMENT OFFICER MUSICCO: -- is really
16 transition to each of the different programs. Again
17 having at a high level, cover -- covered total fund, we're
18 going to take time to review the individual programs.
19 Each section has the following bits of information to be
20 presented. We're going to talk about the role of the
21 asset class, including the risk and return profile. We're
22 going to talk about the market environment and investable
23 themes that are pertinent to each of the asset classes.
24 We'll talk about our asset allocation targets and the
25 ranges. We review our key performance and risk measures

1 the public asset class. With the cap-weighted segment,
2 annualized expected return of 6.8 percent and the expected
3 annualized volatility of 17 percent. In the
4 factor-weighted segment, expected return of 5.1 percent
5 and expected volatility of 13.5 percent.

6 It is important to note, as, you know, Nicole
7 discussed this earlier, that the factor-weighted segment
8 has a lower volatility than the cap-weighted segment. It
9 is still riskier or has higher volatility than most of the
10 asset classes that we have bar private equity. So it is
11 still a growth asset class. It will still have higher
12 volatility, even though it is lower than the cap-weighted
13 segment.

14 I make this point to emphasize the fact that the
15 factor-weighted segment, while it is defensive, it is only
16 defensive relative to the cap-weighted segment and not to
17 the rest of the portfolio.

18 If we can move on to slide 22, please.

19 --o0o--

20 MANAGING INVESTMENT DIRECTOR NZIMA: On this
21 slide, I'll talk about the market environment and some of
22 the investment themes that we're looking at. The high
23 level of inflation in the economy has led the federal
24 reserve to raise interest rates aggressively. And this
25 has roiled equity markets. Fears that the Fed will

1 overtighten financial conditions and cause a recession,
2 both an economic recession as well as an earnings
3 recession, have resulted in the contraction of multiples,
4 as well as the downward revision of earnings expectations,
5 enhance the current equity market drawdown that we're
6 seeing.

7 The risk/reward dynamic for equities in the short
8 term looks challenged, given the Fed's continued raising
9 of interest rates, and thus we expect to continue to see a
10 volatile equity market.

11 As discussed during the June IC, equity markets
12 go through periods of high volatility and severe market
13 drawdowns, but tend to rise over the long term reflecting
14 economic growth. The tendency of equity markets to rise
15 over the long term rewards those investors who can weather
16 the short-term storm of volatility and market drawdowns.

17 Currently, there's a lot of dispersion in terms
18 of valuations in the equity market, and this is actually a
19 stock pickers market. The market is prime for active
20 management. Here, we're talking about, you know, looking
21 at companies which have growth at reasonable price, free
22 cash flows, quality growth, companies with greater pricing
23 power, and so forth.

24 We must be responsive to the current market
25 environment and be nimble. Public market valuations have

1 rapidly adjusted downwards creating good entry points.
2 History suggests that periods of market volatility and
3 indiscriminate selling of stock presents a richer
4 opportunity set for active strategies. And hence, our
5 goal is to increase our allocation to active equity
6 strategies.

7 If we could turn onto slide 24, please.

8 --o0o--

9 MANAGING INVESTMENT DIRECTOR NZIMA: Now, I'm
10 going to spend a little bit more time on the cap-weighted
11 segment of the public equity portfolio. This segment is
12 largely indexed with 94 percent allocation to the
13 index-oriented strategies. This was a result of the 2019
14 strategic decision to reduce active risk in the portfolio.
15 For the last fiscal year, the cap-weighted segment end a
16 negative 15.8 percent compared to its benchmark return of
17 a negative 16 percent, thus we slightly outperformed the
18 benchmark by 20 basis points, but it's still a negative
19 return.

20 Over the longer period, the three-, five- and
21 10-year periods, the cap-weighted segment had positive
22 absolute returns, as well as positive excess returns.
23 Over the cumulative -- on a cumulative basis relative to
24 the 2017 SAA expectations, the cap-weighted segment
25 performed in line with those expectations.

1 I will not go through slides 25 through 27, but
2 these slides show the breakdown of the performance and
3 risk of the cap-weighted segment. Nonetheless, all the
4 underlying strategies in the cap-weighted segment had
5 positive excess returns over the one-, three-, five-, and
6 10-year periods, with the only exception being the
7 Emerging Manager Program.

8 If we could move to slide 28, please.

9 --o0o--

10 MANAGING INVESTMENT DIRECTOR NZIMA: Let's see, I
11 think it should be slide -- let's look at the next slide,
12 29.

13 --o0o--

14 MANAGING INVESTMENT DIRECTOR NZIMA: Okay. Thank
15 you.

16 So here now we're looking at the factor-weighted
17 segment. For the last fiscal year, the factor-weighted
18 segment had a negative return of 6.9 percent compared to
19 its benchmark return of a negative 6.8 percent. As you
20 may recall, and as we discussed earlier, the
21 factor-weighted segment is defensive in nature. It tends
22 to underperform the equity market when the equity markets
23 are going up and tends to outperform equity markets when
24 equity markets are falling.

25 The goal of the factor-weighted portfolio is

1 really to dampen the volatility. So if you look at the
2 volatility of the cap-weighted segment, that volatility is
3 18.5 percent, that's the forecasted volatility, was the
4 factor-weighted segment as -- and forecasted volatility of
5 13.7 percent.

6 From the performance perspective, we can actually
7 see this attribute when you compare the performance of the
8 two segments. With the cap-weighted segment and the
9 negative 15.8 percent this past fiscal year, the
10 factor-weighted segment end a negative 6.9 percent. So it
11 actually did the job that we expected it to do in terms of
12 having relatively better performance than the cap-weighted
13 segment.

14 If we could move to slide 33, please.

15 --o0o--

16 MANAGING INVESTMENT DIRECTOR NZIMA: So now, I'll
17 shift gears and talk about our work on the governance and
18 sustainability strategy. We continue to execute on our
19 governance and sustainability strategy, which focuses on
20 improving long-term sustainability and resilience of the
21 portfolio. We do this by holding boards of our portfolio
22 companies accountable on executive compensation, which is
23 pay for performance, corporate board diversity, and
24 climate change.

25 On executive compensation, we continue to vote

1 against executive pay plans, which do not show sufficient
2 alignment between pay and performance. We also vote
3 against compensation committee members for designing pay
4 plans that do not align pay and performance.

5 On corporate board diversity, we continue to see
6 an increase in the number of diverse directors appointed
7 to boards. We vote against nominating and governance
8 committee members where we don't see improvements in terms
9 of board diversity.

10 On climate change, we voted against 95 directors
11 at 26 Climate Action 100+ companies for not adequately
12 responding to the Climate Action 100 initiatives. Slides
13 33 through 37 provides additional detail regarding the
14 work that we're doing in terms of leading the market on
15 sustainability issues. We consider sustainability an
16 integral part of managing our public equity as well as our
17 total portfolio for long-term resilience.

18 If we could jump to slide 38, please.

19 --o0o--

20 MANAGING INVESTMENT DIRECTOR NZIMA: Now, in
21 terms of evaluating what is what and areas of refinement.
22 As alluded to earlier, all the underlying strategies in
23 the cap-weighted segment end positive excess return over
24 the one-, three-, five-, and 10-year periods, with the
25 exception of the Emerging Manager Program. Applying the

1 lessons that we've learned from history can only enhance
2 our ability to add value to the CalPERS portfolio.
3 Additionally, we continue to optimize our technology and
4 operating costs resulting in cost savings in the program.

5 In terms of areas of refinement, as Nicole
6 alluded to, one of the things that we're looking at is the
7 enhancement of the active risk allocation framework to
8 facilitate an increased allocation to active strategies to
9 take advantage of increased market volatility and further
10 diversify the active equity strategies.

11 We're also working to refine the business process
12 around active strategy, such as in contracting to
13 facilitate the opportunistic deployment of capital.

14 If you move to slide 39, please.

15 --o0o--

16 MANAGING INVESTMENT DIRECTOR NZIMA: So in terms
17 of the priorities, the initiatives that we're looking at
18 on a going-forward basis, we'll continue to execute on the
19 Board approved governance and sustainability strategy and
20 to influence the broader market when it comes to
21 sustainability issues. We will work to thoughtfully build
22 back our active equity strategies book, ensuring that it
23 fits within the total fund mandate to efficiently harvest
24 the equity risk premium. Earlier on, Nicole did refer to
25 the fact that we cut active risk or allocation to active

1 risk in 2019, and that has never been deployed back. So
2 this is part of that effort in terms of deploying back
3 some of that active risk.

4 We are actively engaging with some of our
5 strategy partners to explore strategies which may help
6 mitigate the growth orientation of the portfolio in the
7 short term. We're looking at both defensive and value
8 strategies. We'll also look at different region, and
9 sectors, and factors to see if there are areas that can
10 better weather the high inflation and rising interest rate
11 environment.

12 That is all I had for you today. Thank you for
13 the opportunity to share our team views. And I think I'll
14 hand it back to Nicole.

15 CHIEF INVESTMENT OFFICER MUSICCO: Yes. Thank
16 you, Simiso. We thought we'd try to keep this interactive
17 unless you disagree, and pause between each of the
18 presentations, so that as your questions are coming up on
19 each of the programs, you can ask them, or is your
20 preference to go through each of them and then save for
21 the end? Whatever works best for you.

22 CHAIRPERSON MILLER: I have no requests for
23 questions right at the moment.

24 Oh, there -- there I do.

25 CHIEF INVESTMENT OFFICER MUSICCO: Sure. Great.

1 CHAIRPERSON MILLER: Controller Yee.

2 CHIEF INVESTMENT OFFICER MUSICCO: There's just a
3 lot, so we figured maybe we'd open it for questions in
4 between each of the presentations.

5 CHAIRPERSON MILLER: There we go. Oh, okay.
6 Controller Yee, then Director Pacheco.

7 COMMITTEE MEMBER YEE: Great. Thank you very
8 much. I really like the structure of the presentation, so
9 thank you for that thoughtfulness there.

10 My first question actually goes back to one of
11 the slides, Nicole, that you had addressed, slide 17. And
12 it had to do with the increase in investment fees. I just
13 wanted to understand a little bit better. So we have the
14 fees increasing to 21 -- just a little over 21 basis
15 points this year, from 15.4 basis points last year. And
16 just why the increase, since there was less AUM and the
17 performance was much lower than the prior year.

18 CHIEF INVESTMENT OFFICER MUSICCO: I'll get Greg
19 to give you more of the specific details, if needed, after
20 my comment. But essentially, these aren't going to show
21 up linearly. Often fees are called upon or paid as
22 capital is being called. And we would have been in a very
23 heavy deployment. In the last three years, you would have
24 seen we've been deploying capital into those private
25 markets. And so given how busy the markets have been, the

1 opportunity sets that we've had, our managers most likely
2 where -- what this is reflecting is that capital is being
3 called and has been deployed, and therefore the fees are
4 starting to get charged.

5 COMMITTEE MEMBER YEE: I see.

6 CHIEF INVESTMENT OFFICER MUSICCO: Now, that's
7 not always the case.

8 COMMITTEE MEMBER YEE: Yeah.

9 CHIEF INVESTMENT OFFICER MUSICCO: Sometimes fees
10 are paid on committed dollars, but other times they're
11 paid on invested dollars. And so what I would say to you
12 is what you should read from this is that we're very
13 active in deploying capital into private markets --

14 COMMITTEE MEMBER YEE: Uh-huh.

15 CHIEF INVESTMENT OFFICER MUSICCO: -- which is
16 what we're trying to do, because of the sins of past, if
17 you will. And that number will be volatile and it will
18 reflect our activity with third-party managers, which we
19 need because of the size of -- of the pool we're trying to
20 deploy --

21 COMMITTEE MEMBER YEE: Right.

22 CHIEF INVESTMENT OFFICER MUSICCO: -- in addition
23 to until -- if and when we build up our own expertise
24 in-house, we will need to leverage the expertise of
25 third-party partners, where we'll get more bang for our

1 buck, if you will, is if we do a good job at choosing the
2 right partners and finding ways to do more with them, in a
3 more cost efficient manner, like co-investing, which is
4 what Greg and Sarah are spending a bunch of their time
5 thinking through when we choose partners.

6 COMMITTEE MEMBER YEE: Sure.

7 CHIEF INVESTMENT OFFICER MUSICCO: What's the
8 purpose of the partner? Do we see a path to doing more
9 cost efficient deployment of capital, et cetera.

10 CHIEF INVESTMENT OFFICER MUSICCO: Okay. I don't
11 know if Greg or Sarah if you guys had additional comments
12 on that, but that's how I would read that chart.

13 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Yeah.
14 I would -- I would just jump in with a couple of things
15 really quickly, Madam Controller. Number one, the dashed
16 line is the internal management -- or internal expenses
17 and then solid line is external. So it's actually the
18 total of those two that is the total expense load for the
19 organization. So the total would get you to about 25
20 basis points, which is actually really cost advantaged
21 relative to -- to really all of or peers.

22 The other thing is again, and this is to Nicole's
23 point, orders of magnitude at the end of fiscal year '21,
24 we had something like six percent private equity,
25 something like 10 percent real assets, and something like

1 zero private debt.

2 COMMITTEE MEMBER YEE: Right.

3 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: And
4 we know those are the more expensive asset classes.

5 COMMITTEE MEMBER YEE: Right.

6 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Fast
7 forward a year, and part of it is it does have to do with
8 the denominator, but part of it also just has to do with
9 really strong deployment that you saw talked about in --
10 you know, in the sort of performance review. You get to
11 the end of this fiscal year, and we're approaching 13
12 percent private equity --

13 COMMITTEE MEMBER YEE: Um-hmm.

14 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: -- up
15 to 13 percent real assets, and about a percent, percent
16 and a half of private debt. And those are just the more
17 expensive assets classes. So, you know, Greg talks about
18 this a lot, we all talk about this a lot, you really want
19 to think of net performance, net of expenses.

20 COMMITTEE MEMBER YEE: Right.

21 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: But
22 we would expect to see the cost go up for the -- for the
23 foreseeable future, not the way that they were
24 pre-financial crisis, but I would expect to see the costs
25 go up in the handful of basis points as we get -- continue

1 to get traction in the private assets.

2 COMMITTEE MEMBER YEE: No. I appreciate that.
3 And I'm not looking for anymore granular. It was just
4 kind of from our perspective looking at the increase just
5 to see how -- kind of what's the framework within which we
6 need to consider whether we should be concerned or not.
7 Yeah.

8 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Yeah.
9 Just real -- I mean you can see the focus that we put
10 on --

11 COMMITTEE MEMBER YEE: Yes. There's a lot of --
12 lot of different --

13 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: -- on
14 fees and the like.

15 COMMITTEE MEMBER YEE: Right. Right.

16 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: And
17 this continues to be a focus. And that's one of the
18 reasons why I really like this chart is because it helps
19 us --

20 COMMITTEE MEMBER YEE: Yeah.

21 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:

22 -- see where they're coming from and then also
23 see, you know, what is AUM based and what is, you know,
24 sort of, you know, capital deployment based.

25 COMMITTEE MEMBER YEE: Yeah.

1 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: So
2 this is definitely private assets is the theme here.

3 COMMITTEE MEMBER YEE: I appreciate that. And I
4 don't know if, Greg or Sarah, you wanted to add anything
5 else, but I'm not meant to be --

6 MANAGING INVESTMENT DIRECTOR RUIZ: Yeah. I'll
7 just -- I'll just add a quick point on private equity.
8 And I think Nicole and Dan laid it out well, but within
9 private equity, what we're seeing -- there's an important
10 distinction, just the absolute fees being paid, and then
11 the fees as a percent of our assets under management.
12 What we've seen now for a couple years, which is
13 continuing this year, is we are -- the absolute fees have
14 gone up, because we're deploying much more capital, but
15 the fees as a percent of our AUM in private equity
16 continue to decline, as a result of the increased scale we
17 have in co-investment. So that really is exactly what
18 we're looking to drive and I would expect that to continue
19 to happen going forward. But then we have these other
20 areas within private markets that both Nicole and Dan hit
21 on where we're deploying that are adding to the overall
22 fee load of the entire fund.

23 COMMITTEE MEMBER YEE: Um-hmm. Got it. Okay.

24 MANAGING INVESTMENT DIRECTOR CORR: The only
25 thing that I'll add is that management fees as a percent

1 of assets under management we're flat over the year --

2 COMMITTEE MEMBER YEE: Right.

3 MANAGING INVESTMENT DIRECTOR CORR: -- but
4 because of the outside -- outsized performance in real
5 estate of 24 percent, a lot of the partners hit their
6 incentive payouts. And so our incentive payouts were
7 higher than they were in 2021.

8 COMMITTEE MEMBER YEE: Got it. Great. Very
9 helpful. Thank you.

10 And then two other questions. And Simiso, I'm
11 going to pose these to you. On slide 33, so just curious
12 about why CalPERS voted against fewer executive comp
13 proposals and compensation committee directors this year
14 compared to last.

15 MANAGING INVESTMENT DIRECTOR NZIMA: Yeah. So if
16 you recall, in 20 -- 2021, we reduced -- so we narrowed
17 our benchmark, so that kind of reduced the number of
18 companies that we have in the benchmark from about 12,000
19 companies to about 6,000 companies.

20 COMMITTEE MEMBER YEE: Yeah.

21 MANAGING INVESTMENT DIRECTOR NZIMA: So really
22 we're voting on a fewer -- you know, we're voting on a
23 fewer say-on-pay proposals because of that. And, you
24 know, from a percentage perspective, we're looking at, you
25 know, the 48 percent versus 54 percent. Ideally, you'd

1 actually want to see that number come down, you know, over
2 the years, because then that means that pay is aligned
3 with performance.

4 COMMITTEE MEMBER YEE: Right.

5 MANAGING INVESTMENT DIRECTOR NZIMA: And
6 hopefully, that's part of what's happening in terms of --
7 of that, but also part of it could be that -- you know,
8 the smaller companies that we narrowed out for benchmark
9 may be had -- sort of more challenged pay for performance
10 alignment.

11 COMMITTEE MEMBER YEE: Sure.

12 MANAGING INVESTMENT DIRECTOR NZIMA: So it
13 could -- it could be a combination of those both things.

14 COMMITTEE MEMBER YEE: Okay. Good. Well,
15 hopefully it's an improvement in terms of the company's
16 performance.

17 Okay. And then the other question is can you
18 give a flavor perhaps on some of the 2023 shareowner
19 proposals that may be contemplated?

20 MANAGING INVESTMENT DIRECTOR NZIMA: Yeah. I
21 think the way we've approached shareowner proposals really
22 is -- is twofold. You know, it's -- one is based on
23 the -- on the themes that we're looking at, you know,
24 climate action, if we're -- or corporate board diversity.
25 If we are not getting traction from an engagement

1 perspective, the next stage of accountability that we look
2 at -- so if we don't get traction, we vote against -- we
3 vote against, you know, directors where it's members of
4 the nominating and governance committee, whether it's
5 members of the risk committee for climate. But the next
6 stage after that, in terms of accountability, is to --
7 actually to file shareowner proposals. So really it's
8 dependent again on the issue of are we getting traction or
9 not? And if we're not getting traction on that, then we
10 file those -- the shareowner proposals.

11 The other aspect really is related both in terms
12 of the -- the work we're doing, but also our partners,
13 because sometimes we file proposals with partners. Some
14 partners don't have the -- the ability or they don't have
15 the infrastructure to be able to file a proposal like we
16 do, so where we co-file with others and then run proxy
17 solicitations. If you made a co- -- a few years ago -- I
18 think three or four years ago we internalized the running
19 of proxy solicitations to reduce the cost, and so we're
20 actually able to run proxy solicitations internally, and
21 more effectively, and cost efficiently. And so we use
22 that path as well, where we trusted partners on issues
23 that we care about whether it's human capital management
24 or things like that, where we can co-file proposals with
25 trusted partners with the understanding that we'll run

1 proxy solicitations.

2 COMMITTEE MEMBER YEE: Okay. So --

3 MANAGING INVESTMENT DIRECTOR NZIMA: So I think
4 we'll come back to the Board, I think, in March where we
5 preview the 2023 season in terms of these are the things
6 that we're looking at and so forth. And I think that
7 we'll come back to the board in March.

8 COMMITTEE MEMBER YEE: Okay. No. I appreciate
9 that. And I may have misread it as thinking that it was
10 new areas versus, you know, those areas which we have been
11 actually leaders in engagement. So look forward to the
12 report going forward.

13 Thank you very much. Thank you, Mr. Chairman.

14 CHAIRPERSON MILLER: Okay. Thank you.

15 Next, we have Director Pacheco.

16 COMMITTEE MEMBER PACHECO: Yes. Thank you very
17 much Chairman Miller. So my question is on -- actually on
18 page 26. It's on the cap-weighted excess returns by
19 strategy. And it's basically about the public equities
20 and the Emerging Manager Program. You know, it appears to
21 be consistently a distractor of performance. And I'm just
22 wondering what -- what recommendations you may have on,
23 you know, achieving better outcomes in that portfolio.

24 MANAGING INVESTMENT DIRECTOR NZIMA: Yeah. I
25 think, you know, when it comes to the Emerging Manager

1 Program, I think we need as a team, not just the public
2 equities side, but the total fund, really to take another
3 look in terms of how the program is structured and whether
4 we have the right partners in place or what is it that is
5 causing the underperformance. This is something which,
6 you know, my team, at least in public equities, is
7 something which we want to dig deeper into, but I also
8 think it's much broader than just the public equity side
9 of things. This is something which I know Nicole is -- is
10 in the process of hiring an MID for sustainable
11 investments and this falls under that -- that drawer as
12 well, so I'll defer to Nicole and see if she has any
13 additional thoughts.

14 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. I would
15 just say I think this is a good example of without a total
16 fund lens on these programs --

17 COMMITTEE MEMBER PACHECO: Right.

18 CHIEF INVESTMENT OFFICER MUSICCO: -- these
19 things can start to run -- run wild on their own.

20 COMMITTEE MEMBER PACHECO: Exactly.

21 CHIEF INVESTMENT OFFICER MUSICCO: And so the
22 first question is is if we are going to do Emerging
23 Manager Program, where are we getting the best
24 risk-adjusted return? Where do we have the right skill
25 set in choosing those managers? Where do we feel we're

1 able to most move the needle? And all of those bits of
2 the conversations need to go into the decision-making
3 versus just assuming that there should be an Emerging
4 Manager Program residing within the active program --

5 COMMITTEE MEMBER PACHECO: Right.

6 CHIEF INVESTMENT OFFICER MUSICCO: -- of Simiso's
7 overall strategy. I mean, maybe there are better places
8 for him to be thinking about taking active risk and that
9 Emerging Manager Program could reside elsewhere. And so I
10 think historically those types of decisions were done in a
11 si -- more siloed manner and we're going to look at that
12 through a different approach through a total fund lens.

13 COMMITTEE MEMBER PACHECO: Total fund lens.
14 Thank you.

15 And the other question I have is on the page 35
16 and 36 on the CalPERS Board diverse -- diversity
17 engagement. So I noticed the -- in the cohort, you know,
18 we had a lot of like activity. We had -- we had a larger
19 target. And then over time, from 2017 to 2020, it seemed
20 to be -- you know, it seemed to have decreased. Is
21 there -- is there a reason behind this or I'm just trying
22 to understand these graphs more clearly.

23 MANAGING INVESTMENT DIRECTOR NZIMA: Yeah. Thank
24 you. Thank you for the question and it's a good
25 observation. You know, over time you actually want to see

1 that -- this graph decrease, because what it says to you
2 is that we have fewer companies that lack diversity on
3 their boards. So if you recall, we started this
4 engagement in -- initiative in 2017. And at that point,
5 you know, there were, you know, 500 -- 504 companies in
6 the Russell 3000 based on our criteria that led board
7 diversity.

8 And so, you know, each year, if you get more
9 companies added to the index, then we run the screen again
10 to see if, you know, those companies lack diversity. So
11 the decreases are actually a good thing, because it tells
12 you that things are working. And this is supported again
13 if you look at the targets relative to the companies that
14 have actually added diversity after engagements. You look
15 at, you know, the 2017 cohort, 90 percent of the surviving
16 companies have added elements of diversity that they
17 didn't have when we started engaging them.

18 And, you know, even the other cohorts, 2018,
19 2019, and 2020 you can see the numbers are really high
20 means companies are getting our messaging and adding
21 diversity to their boards. And that is why you don't see
22 any cohort for 2021, because when we looked at those, the
23 companies that we have that haven't added diversity,
24 they're still the same companies that in the older cohort.
25 There are no new companies that don't lack diversity that

1 have come to the -- to the portfolio.

2 COMMITTEE MEMBER PACHECO: And when -- when
3 you're talking about diversity, you're talking about just
4 adding, you know -- in what respect is it, more gender,
5 more minority, you know?

6 MANAGING INVESTMENT DIRECTOR NZIMA: Yeah. So,
7 you know, technically when we started this initiative,
8 what we used because of the lack of data, our criteria was
9 to use gender as the identifier. But when we actually
10 engage with companies, we engage them across all the
11 spectrums of diversity, gender, race, you know, sexual
12 orientation, and so forth. So we're actually broader in
13 the engagement.

14 As the data improves, I think we'll be able to
15 become more granular in terms of that. And we've been
16 voting against boards where we feel they have -- they lack
17 diversity, whether from an engagement perspective even
18 just from a numbers perspective looking at their Board
19 composition and feeling like they don't have a reasonable
20 level of diversity on the Board.

21 COMMITTEE MEMBER PACHECO: That's wonderful. And
22 just -- just a side bit, with respect to the infor -- of
23 the companies that we have engaged with diversity and so
24 forth, the information is being shared publicly or is it
25 just -- I'm just trying to understand that whole process.

1 MANAGING INVESTMENT DIRECTOR NZIMA: We don't --
2 so our engagements with companies are private and
3 confidential --

4 COMMITTEE MEMBER PACHECO: Right.

5 MANAGING INVESTMENT DIRECTOR NZIMA: -- so we --
6 you know, we engage privately. We -- you know, the only
7 part that would be public would be when we vote against,
8 you know, directors for lack of diversity, then we'll put
9 that publicly, you know, in our -- in our voting portal or
10 when we run a proxy solicitation -- where we have filed a
11 proxy proposal and we're running a proxy solicitation,
12 then that becomes public. But in terms of the actual
13 engagement, we feel, and history shows us, that when we
14 engage privately and confidentially, we tend to have -- it
15 results, you know, better than if we just go and name and
16 shame in public.

17 COMMITTEE MEMBER PACHECO: Absolutely. Well,
18 thank you very much. That was -- that was very good.
19 Thank you very much.

20 CHAIRPERSON MILLER: Thank you.

21 Next, we have President Taylor.

22 COMMITTEE MEMBER TAYLOR: Thank you. Thank you,
23 Chair Miller.

24 I was going to ask a bunch of those questions, so
25 never mind.

1 (Laughter)

2 COMMITTEE MEMBER TAYLOR: But I did want to ask
3 Greg and he already sat back, but I did want to ask Greg
4 what he thought about our ESG integration in the private
5 equity and do we have an answer for the S? You know, we
6 have -- I don't know, we have a lot of problems with the S
7 in private equity, workforce issues, et cetera. Is there
8 anything that -- I know you guys are working on
9 integrating is. Is there anything you can expand on?

10 MANAGING INVESTMENT DIRECTOR RUIZ: Sure. We
11 have been working to integrate ESG into private equity I
12 think in a much more fulsome way. And the way we've
13 approached it, and I can some more -- some more detail
14 later, but we really have wanted to understand the state
15 of play today. So there is a tremendous amount happening
16 in the private equity industry where managers are
17 embedding ESG factors more deeply into -- into their
18 investing.

19 But as an allocator, we have not been able to see
20 that with the level of clarity we'd like across our
21 portfolios. So our approach has really been to better
22 understand the data. And that's where we have worked to
23 bring together a group, in the ESG data convergence
24 initiative to really track ESG data in a standardized and
25 longitudinal way, so that we can actually just see what's

1 happening along these various factors. Our view is once
2 we kind of have that real insight, then you can understand
3 and we would expect the levers to move.

4 COMMITTEE MEMBER TAYLOR: Okay. Great. I
5 appreciate that. And then Simiso, I appreciate your
6 report on our ESG and our proxy voting. And I know that
7 this isn't going to be your role next year, so -- and
8 someone asked you -- I think Controller Yee asked you what
9 your 2023 outlook was. Who's going to be directing that
10 next year?

11 MANAGING INVESTMENT DIRECTOR NZIMA: Good
12 question.

13 (Laughter)

14 MANAGING INVESTMENT DIRECTOR NZIMA: And, yes,
15 you're right, that is not going to be my role. We are in
16 the process of hiring someone --

17 COMMITTEE MEMBER TAYLOR: Okay.

18 MANAGING INVESTMENT DIRECTOR NZIMA: -- to
19 backfill that position. We are hoping that at the next --
20 at the November IC, that individual will be here. We
21 cannot, at this point, sort of, you know, be specific
22 about that, because they're still technically working for
23 another organization.

24 COMMITTEE MEMBER TAYLOR: Oh, yeah, yeah.

25 MANAGING INVESTMENT DIRECTOR NZIMA: But we have

1 identified an individual, and they should be here by the
2 next Investment Committee in November.

3 COMMITTEE MEMBER TAYLOR: Okay. Great. And --
4 so I want to tell you how much I appreciate you having the
5 two roles and doing as much as you've done on our proxy
6 voting, so -- and the work that you've done. So I just
7 wanted you to know that we really do appreciate the work
8 that you've done, while you were taking on your new role
9 in global equity.

10 MANAGING INVESTMENT DIRECTOR NZIMA: Yeah, thank
11 you.

12 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: And,
13 Madam President, while Simiso will hire a day-to-day
14 director, he's still accountable for it, because it's
15 still in global equity.

16 (Laughter)

17 COMMITTEE MEMBER TAYLOR: True.

18 MANAGING INVESTMENT DIRECTOR NZIMA: Yeah. I was
19 going to say thank you for the kind words. We do have a
20 great team, you know, in global equity, whether it's the
21 portfolio management, you know, day-to-day implementation
22 and management of the portfolio, the Governance and
23 Sustainability staff, I -- you know, I'm here to represent
24 the work that the team has done. So really, it's -- it's
25 about the team, so -- but thank you. Thank you for the

1 recognition

2 COMMITTEE MEMBER TAYLOR: Well, thank you very
3 much. Thank you.

4 CHAIRPERSON MILLER: Okay. It looks like I have
5 another question from Controller Yee.

6 COMMITTEE MEMBER YEE: Thank you, Chair Miller.
7 And, Greg, you mentioned the ESG data convergence
8 project. And I don't remember but has CalPERS joined that
9 ILPA Diversity Initiative?

10 MANAGING INVESTMENT DIRECTOR RUIZ: Controller
11 Yee, so as I believe you're aware, I joined the ILPA
12 board --

13 COMMITTEE MEMBER YEE: Yes.

14 MANAGING INVESTMENT DIRECTOR RUIZ: -- recently.
15 We have not technically joined that initiative, but we
16 actually are well underway with a strategy that we're kind
17 of pioneering within our on portfolio.

18 COMMITTEE MEMBER YEE: Okay.

19 MANAGING INVESTMENT DIRECTOR RUIZ: It is still
20 being developed, but I expect we'll be able to share a
21 good bit more within the next six months. And I think --
22 I'm really hopeful that we may be able to kind of target
23 diversity in a way that is particularly impactful, given
24 our unique position as CalPERS within the private equity
25 industry.

1 COMMITTEE MEMBER YEE: Okay. Yeah. I wasn't
2 sure whether it would be helpful in terms of just
3 emphasizing CalPERS commitment to DE&I with our general
4 partners, but I -- and, yes, thank you for serving on that
5 board on top of a full plate.

6 Thank you. Thank you, Mr. Chairman.

7 CHAIRPERSON MILLER: Continue.

8 CHIEF INVESTMENT OFFICER MUSICCO: Excellent. So
9 thank you for that. Next up, we'll have Arnie and he will
10 walk us through both the fixed income program and also is
11 standing in for Jean Hsu and will discuss private debt.
12 So we'll do a similar approach, we will have Arnie go
13 through fixed income, pause, and then go on with the
14 private debt program so we can get questions in.

15 CHAIRPERSON MILLER: Excellent.

16 MANAGING INVESTMENT DIRECTOR PHILLIPS: Good
17 afternoon. Arnie Phillips, Global Fixed Income.

18 As Nicole mentioned, I will cover both global
19 fixed income and the opportunistic area. They actually
20 fit together quite well with opportunistic in primarily
21 the private debt area largely being a diversified form of
22 fixed income. So they're -- they're actually quite
23 complementary and one of the reasons we're striving to get
24 a larger allocation to private date over time.

25 So slide 41, which you have up there --

1 --o0o--

2 MANAGING INVESTMENT DIRECTOR PHILLIPS: -- just
3 highlights global fixed income is designed to be a pro --
4 to provide long-term equity diversification and to provide
5 a reliable source of income and liquidity. This chart
6 does show where the various product types land on the
7 continuum of diversification, liquidity, and income.

8 And while we do still believe the long-term
9 relationships apply, fixed income clearly has not provided
10 the expected diversification since the onset of the Russia
11 Ukraine conflict. And actually the majority of the
12 interest rate moves occurred in about a two-month period
13 following the onset of that conflict.

14 And interestingly, and not in a good way, it's
15 really the first time in over 40 years where we've seen
16 the entire U.S. Treasury index and the S&P 500 index both
17 drop more than 10 percent in a year. And so, you know,
18 going back -- I had to date it back to 1980, and this was
19 the first instance where we saw those large moves in the
20 same direction. Pretty strong correlations in the past
21 moving opposite directions.

22 And it's kind of interesting because the entire
23 U.S. curve has per -- U.S. Treasury curve has performed
24 quite poorly. Even the five-year U.S. Treasury, which is
25 below our U.S. Treasury index, we start seven years and

1 out, has dropped nearly 10 percent this year in price,
2 even with its relatively short interest rate exposure.

3 With the aggressive Federal Reserve interest rate
4 hikes, we've actually seen the front end of the interest
5 rate curve move much higher than the longer portions of
6 the curve. The two-year Treasury yield is up nearly three
7 percent in the last year with 30-year Treasuries up a
8 little over one percent. So this has led to broad
9 underperformance across the entire U.S. Treasury interest
10 rate curve really regardless of the level of duration.

11 Next slide, please.

12 --o0o--

13 MANAGING INVESTMENT DIRECTOR PHILLIPS: This
14 slide shows the capital market assumptions that were used
15 in the last ALM cycle and also highlights what made the
16 ALM process so challenging. The capital market
17 assumptions for projected returns in fixed income are
18 certainly much lower than they've been historically. And
19 while our strategic portfolio is designed to have a
20 long-term horizon, this year's fixed income returns have
21 actually, you know, certainly been quite negative and
22 quite disappointing.

23 Next slide, please.

24 --o0o--

25 MANAGING INVESTMENT DIRECTOR PHILLIPS: This

1 slide just really shows how, you know, and talks about how
2 volatile the asset markets, and as Lauren mentioned, just
3 the overall global economy has been. And it certainly has
4 increasing risk in all asset markets, including the fixed
5 income markets. Trying to look forward, we do think
6 those, you know, same factors will provide opportunities
7 to tactically deploy assets, when managed through an
8 active risk governance model that Nicole has put in place.
9 So we are -- we are opportunistic that we can hopefully
10 turn this into a positive.

11 Slides 44 through 55 provide a quantitative view
12 of the global fixed income segments. And I'll highlight
13 some of the pages. Slide 44 shows how global fixed income
14 was structured last year. We had three distinct strategic
15 asset allocation segments with over 95 percent of those
16 assets invested in cost efficient internally managed
17 strategies.

18 U.S. Treasury and high yield segments are
19 designed to be relatively passive in nature. So you will
20 see very little tracking error in the slides that come in
21 the next few slides, because these segments were largely
22 designed to match the indices risk characteristics.

23 Turning to slide 45, please.

24 --o0o--

25 MANAGING INVESTMENT DIRECTOR PHILLIPS: Our

1 strategic asset allocation does include a long fixed
2 income duration profile. Said another way, we have a lot
3 of interest rate risk exposure. This is intentional in
4 the strategic asset allocation and is designed to provide
5 long-term drawdown protection against equity market drop.
6 That risk exposure clearly did not work this year and
7 resulted in a 16 percent loss for the U.S. Treasury
8 segment.

9 Switching to page 48, please.

10 --o0o--

11 MANAGING INVESTMENT DIRECTOR PHILLIPS: This
12 shows the spread segment, which is the one segment that we
13 actively manage. It has also had very little tracking
14 error this year, because we were not constructive on the
15 markets. We have been and continue to be cautious about
16 all the factors that Lauren laid out that are impacting
17 the global economy and so we are positioned accordingly.

18 The relatively large interest rate exposure in
19 the spread segment though did, along with the spread
20 widening, did result in a relatively large absolute return
21 underperformance this year.

22 On an excess return, performance versus the
23 index, the spread segment continues to have very strong
24 long-term data. And I would be remiss if I didn't note on
25 this slide, Nicole noted, you know, a lot of our active

1 risk has not been compensated in the past. This is one
2 area that we do have very strong information ratio showing
3 we have been compensated for taking risk in -- in the
4 active markets and fixed income over time.

5 And we do have some ideas that we're working with
6 Wilshire and the governance committees on some ways we
7 think we can enhance that going forward.

8 Page 50, please.

9 --o0o--

10 MANAGING INVESTMENT DIRECTOR PHILLIPS: This just
11 highlights what we've -- we've talked about already. You
12 know, each of the individual sleeves of the spread
13 segments have very solid long-term excess return
14 performance versus the index, but we were relatively flat
15 this year, given our depen -- given our defensive posture,
16 which you can see on page 52, showing the spread segments,
17 volatility, tracking error, and active positioning all at
18 very low levels.

19 Slide 53.

20 --o0o--

21 MANAGING INVESTMENT DIRECTOR PHILLIPS: We
22 transition to the high yield segment. It is passive in
23 nature at the moment. So by design, we are largely
24 matching the index risk characteristics. The high yield
25 segment did have a challenging year, given that most risk

1 assets underperformed during the year, which led to spread
2 widening in high-yield markets.

3 And while it does have a lower interest rate
4 exposure profile, the most of our fixed income exposures,
5 as I noted earlier, the large interest moves in the
6 shorter part of the interest rate curve did contribute to
7 negative absolute returns in the high yield segment too.

8 Slide 55, please.

9 --o0o--

10 MANAGING INVESTMENT DIRECTOR PHILLIPS: This just
11 highlights the passive nature of the high yield segment
12 with volatility, tracking error, and active positioning
13 metrics all at very low levels also.

14 Slide 56.

15 --o0o--

16 MANAGING INVESTMENT DIRECTOR PHILLIPS: This
17 shows global fixed income, governments -- governance, and
18 sustainability efforts, which really are embedded in
19 global fixed income's daily fundamental analysis work.
20 Our credit team is looking at every company we have,
21 whether we want to be neutral weighting, overweight,
22 underweight. And governance and sustainability we do
23 believe leads to -- to performance. And so it is factor
24 that every one of our analysts considers on every one of
25 our companies.

1 Slide 56 does show some of the recent
2 accomplishments in this area. We've incorporated some
3 rating agency SG scores into the process. We've purchased
4 a decent amount of sustainability linked bonds, and the
5 credit team developed for use within all of fixed income
6 an ESG questionnaire for all of our global fixed income
7 external managers.

8 Slide 57, please.

9 --o0o--

10 MANAGING INVESTMENT DIRECTOR PHILLIPS: So global
11 fixed income continues to be a strong long-term excess
12 return provider and have successfully transitioned to the
13 one team, one fund focus. But there's always efficiencies
14 that can be incorporated into any process. And we're
15 certainly working to improve the operational effectiveness
16 in the new strat -- new strategic asset allocation
17 segment, which now includes five segments, as opposed to
18 the three we had in the past year. So we're working with
19 other parts of the Investment Office to make these
20 efficiency improvements.

21 Slide 58, please.

22 --o0o--

23 MANAGING INVESTMENT DIRECTOR PHILLIPS: For the
24 current year, you know, we're going to continue to strive
25 what we've done -- strive to do what we've done, which is

1 provide long-term excess return versus the indices. We
2 stand ready to help Nicole utilize our fundamental
3 analysis expertise to assist the other areas of the total
4 fund. This is likely to fit into the private markets on
5 opportunistic, real assets, primarily probably the
6 infrastructure side and then any co-invest opportunities
7 that Greg may have.

8 And we're going to continue to search for ways to
9 add innovative returns in the fixed Income markets. As I
10 noted earlier, we are working with Wilshire in two
11 different areas to get some data and solidify a strategy
12 that will then go through the governance structure to
13 hopefully add some enhanced abilities to provide some
14 long-term return.

15 And then finally, you know, and I think very
16 importantly, you know, we are cautiously optimistic that
17 we're close to rebuilding some key staff losses. We did
18 lose some folks in investment grade in our mortgage team
19 and on our sovereign team. We're pretty far along in
20 hiring some of those folks. And so I'm certainly much
21 more optimistic than I was maybe two or three months ago
22 when the -- the folks left and we've made a lot of
23 progress in a short amount of time, so looking forward to
24 getting the team back together.

25 So maybe I'll stop there before I move on to the

1 opportunistic side of things and take any questions.

2 CHAIRPERSON MILLER: Okay. I have director
3 Taylor. President Taylor.

4 COMMITTEE MEMBER TAYLOR: That's okay. You can
5 call me Theresa too.

6 Thanks, Arnie. I appreciate it. Good -- the
7 only thing that piqued my interest -- there was a lot.
8 There was the interest rates that, you know, didn't pay us
9 this time around. I get it. We're looking for better
10 opportunities. I just wanted to ask, you developed an ESG
11 questionnaire for external managers. So what is that?

12 MANAGING INVESTMENT DIRECTOR PHILLIPS: So it
13 would be better answered by my credit team, but in
14 essence, we want to -- similar to maybe what Greg is doing
15 of reaching out to our manager every year and just getting
16 an update on what they're doing in the area, what changes
17 they've done. And if there's anything in there that maybe
18 we can learn from to help our due -- help us do our
19 internal job better. But it was really -- you know, the
20 first time we've done it, we reached out to other parts of
21 the organization that have been doing it for, you know, a
22 time being. There didn't seem to be a reason to read the
23 book -- rebuild the wheel if other folks were already
24 doing it well. But we did a little bit of our own fixed
25 income metrics to it. But really it's just to, one, show

1 the external managers that we are watching, to show that
2 we care about it, but also, you know, to get that feedback
3 loop to hopefully learn something to do what we do
4 internally better.

5 COMMITTEE MEMBER TAYLOR: So the data is what
6 you're looking to gather, right?

7 MANAGING INVESTMENT DIRECTOR PHILLIPS: Yeah.
8 And that -- that's a good point, because it seems like on
9 a lot of these areas, the lack of standardized data makes
10 comparisons challenging. And so, you know, we can at
11 least start with our managers.

12 COMMITTEE MEMBER TAYLOR: Right.

13 MANAGING INVESTMENT DIRECTOR PHILLIPS: And then
14 hopefully over time as we look to -- and some of the
15 things we're working with Wilshire on, we'll add
16 additional managers to build that template to then get the
17 information from them. We may learn something unique from
18 them that then, you know, we'll add to it. I view it as a
19 very dynamic template. It is designed to acquire data,
20 but we'll change as needed.

21 COMMITTEE MEMBER TAYLOR: I appreciate that. I
22 think also leveraging the sustainability group would be
23 helpful for the questions for sure, because they --
24 they're on the ground with, you know, whatever company
25 that they're talking to from a stakeholder, right, with

1 whatever concerns there are. So I think that would be a
2 good idea as well.

3 So thank you.

4 CHAIRPERSON MILLER: Okay. Thank you.

5 I don't see anymore questions from anyone on the
6 team, and so is that about a wrap for that?

7 MANAGING INVESTMENT DIRECTOR PHILLIPS: So I'll
8 move to Jean's area. Let me get --

9 CHAIRPERSON MILLER: Great.

10 MANAGING INVESTMENT DIRECTOR PHILLIPS: -- back
11 to my notes here.

12 So, yeah, so Jean gave me her talking points.

13 --o0o--

14 MANAGING INVESTMENT DIRECTOR PHILLIPS: And I'll
15 go through them. If we get into very detailed questions,
16 I have a couple folks from her team here that will be
17 prepared to answer.

18 So slide 60, please. So we're there.

19 So this highlights the main roles of the
20 Opportunistic Strategies Group, which is primarily made up
21 of private debt and our Low Liquidity Enhanced Return, or
22 LLER, Program, which in aggregate are designed to harvest
23 an illiquid -- illiquidity premium, produce current
24 income, and to invest opportunistically.

25 So each sleeve has a similar but independent

1 mandate. LLER is intended to harvest the illiquidity
2 premium of investments that have a remote probability of
3 principal loss. Opportunistic strategies focuses on
4 investments that are either perceived to be undervalued or
5 outside the strategic asset allocation. Important to note
6 that private debt was initially incubated under the
7 opportunistic strategies, until it was given a strategic
8 asset allocation in the recent ALM work.

9 Private debt does seek to generate attractive
10 risk-adjusted returns driven by the illiquidity premium
11 and the complexity in originating underwriting and
12 structuring of private loans. Private debt does
13 complement the private equity program, since investments
14 tend to be at the capital -- at the top of the capital
15 structure and generate current income.

16 But it also complements and diversifies our
17 global income assets. Given private debt's largely
18 floating rate interest exposure, which was a huge positive
19 this year, as opposed to the longer duration interest rate
20 exposure in our global fixed income.

21 Private debt is also diversifying relative to
22 global fixed income in that it is not designed to be a
23 liquidity provider, like most of fixed income. So it
24 should be able to produce higher, long-term returns. And
25 those benefits both to private equity and to global fixed

1 income are why it ended up as a five percent allocation in
2 strategic and why we desire to have more of it.

3 So slide 61, please.

4 --o0o--

5 MANAGING INVESTMENT DIRECTOR PHILLIPS: So this
6 chart illustrates the capital market assumptions for
7 private debt. And private debt does have one of the most
8 attractive risk-adjusted return profiles among the asset
9 classes, and is one of the few asset classes that actually
10 has an expected return above the required rate of return,
11 and obviously looks completely different than the fixed
12 income assets towards the bottom of that chart. So again,
13 showing the attractiveness and why we would like more of
14 it.

15 Slide 62, please.

16 --o0o--

17 MANAGING INVESTMENT DIRECTOR PHILLIPS: So this
18 chart shows the allocation as of June 30th. And for the
19 LLER Program, we were able to build the portfolio from
20 about seven billion to almost 12 billion in the last
21 fiscal year, which is the reason it is now the dominant
22 portion of the overall portfolio. In the past two years,
23 Jean's team has been able to deploy about six billion of
24 the private debt program, so it accounts for about 34
25 percent of the Opportunistic Strategies, and is a -- we're

1 estimating it should be able to grow to about 13 billion
2 by the end of this fiscal year. And then this slide just
3 highlights the consistency and diligence it takes to
4 deploy assets in the private market. It takes time to
5 scale in these markets, but we do think it's worth the
6 effort and the diversifying benefits we will get from it.

7 Slide 63, please.

8 --o0o--

9 MANAGING INVESTMENT DIRECTOR PHILLIPS: So diving
10 into the performance of the sleeves, starting with the top
11 left in the LLER Program, it continues to contribute to
12 the total fund with an outperformance over its benchmark
13 over three, five, and since inception. And all that is
14 despite the challenging market environment over the past
15 year. Jean's team does not believe there is any credit
16 concern in the portfolio and we do expect a positive
17 contribution to excess return once the market stabilizes.

18 Moving on to the opportunistic section.

19 Currently, it only has two public market dislocation
20 funds. This sector has generated an outperformance of 7.4
21 percent over its benchmark. The team was able to activate
22 these funds during the onset of the COVID pandemic, which
23 enabled CalPERS to capture attractive opportunities during
24 that market dislocation. And despite the challenging
25 market environment during the latest fiscal year, the

1 funds were still able to generate a 6.4 percent return.

2 And then finally, looking at the performance of
3 private debt, it has generated meaningful outperformance
4 of 300 basis points over the seven percent benchmark.
5 Although the program is still relatively small, the
6 performance over the last fiscal year through a turbulent
7 market environment highlights what we think is the
8 attractiveness of the asset class in our strategic asset
9 allocation.

10 Slide 64 --

11 --o0o--

12 MANAGING INVESTMENT DIRECTOR PHILLIPS: -- you
13 know, highlights some of the concerns. Really in private
14 debt the concern is really around the underlying
15 borrowers' earnings and their ability to service their
16 loans. And considering, you know, the impacts of the
17 rising interest rate environment and the ongoing inflation
18 challenges that the markets are anticipating and dealing
19 with right now.

20 Private debt does expect to continue to get
21 attractive opportunities deploy as opportunities that
22 historically may have gone to the public markets will fall
23 into the private market side. So Jean's team is ready to
24 take advantage of that.

25 Slide 65.

1 --o0o--

2 MANAGING INVESTMENT DIRECTOR PHILLIPS: This
3 deals with the governance and sustainability section of
4 what Jean has been working on. Jean has engaged her
5 external managers to see how they incorporate ESG into
6 their investment decisions. And Jean wanted me to
7 highlight two examples of things that they've seen that
8 they -- they are thankful for and really appreciate the
9 managers doing. One of the managers has embedded a
10 mechanism into their structure that will lower rates if
11 they meet certain ESG criteria. And another manager took
12 the initiative to be Article 8 compliant, which requires
13 them to demonstrate and act with good governance
14 practices. So probably similar to what Greg is doing,
15 it's maybe not quite as mainstream there, but Jean is
16 working to make it more mainstream.

17 Slide 66.

18 --o0o--

19 MANAGING INVESTMENT DIRECTOR PHILLIPS: You know,
20 as we alluded earlier, the private debt area has deployed
21 six billion. They've made about 20 billion in
22 commitments. And the LLER Program has grown to about 12
23 billion.

24 In terms of areas for further refinement, Jean
25 recognizes they need additional resources to sustain the

1 current deployment pace and importantly require a
2 different set of talent to further capture the economic
3 benefit through co-investment opportunities.

4 And then finally, the team does realize they --
5 they will need further technological assistance to improve
6 the existing infrastructure to help better understand the
7 exposure, performance, and risks that are in the private
8 debt portfolio.

9 Slide 67, please.

10 --o0o--

11 MANAGING INVESTMENT DIRECTOR PHILLIPS: So going
12 forward, Jean's team is focused on four main areas. The
13 first is putting together a budget and a resourcing plan
14 to achieve the five percent strategic asset allocation,
15 which is a -- will require a larger amount of work on her
16 team. The second is a establishing a formal review
17 process for existing investments and strategies to better
18 understand their risks and opportunities.

19 The third is deploying the technological --
20 technology enhancements that we talked about and improve
21 the compliance monitoring.

22 And then finally, they'll just continue to deploy
23 capital to meet that five percent strategic asset
24 allocation. And with that, you know, Dan, Nicole and I
25 are ready to take questions. And if you get weedy we'll

1 bring up Jonathan and Ryan to -- to answer those.

2 CHAIRPERSON MILLER: Okay. I'm not seeing any
3 questions from the Board, but I did have a -- kind of a
4 comment, but for anyone. I'm really encouraged at seeing
5 the way we have -- we've kind of incorporated and aligned
6 ourselves in terms of ESG efforts throughout the
7 organization, but I'm seeing this real movement toward
8 actually integration of it all.

9 And I'm just wondering how -- how are you taking
10 that all on and how are you going to kind of take the --
11 those individual aligned efforts that were kind of here
12 and there, and bring them all together, and kind of
13 conform them to some sort of a constancy, and priority,
14 and coordination, so that we really get that consistent
15 integration over time along with these cultural changes.

16 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. Thank
17 you for the question. I think it starts off with what we
18 chatted about early on where bringing this role, this head
19 of sustainability into the INVO office, me showing tone
20 from the top that this is a huge priority for us. It's
21 woven into our nine business objectives. And so the
22 profile of the individual I'm putting a lot of value on
23 the potential candidate for this role of MID of
24 sustainability for someone who's had that task of taking
25 pockets of greatness across an organization and finding a

1 way to integrate it all, so that we too can do the same
2 thing.

3 And so, in short order, you know, we're in the
4 final strokes of panel interviews. We've got some great
5 candidates for this MID of Sustainability. But one of the
6 things I've asked each of the panelists to do is to spend
7 time with these individuals to make sure that they've been
8 in that hot seat before of getting buy-in and pulling
9 together these different programs that often reside in
10 pockets at different stages of their own evolution and
11 making sure that they've had that experience of pulling it
12 together.

13 CHAIRPERSON MILLER: Yeah. Will that work also
14 be part of the Committee structure in the review or will
15 it perhaps be a separate committee for oversight, and
16 again coordination of harmonization of all those efforts?

17 CHIEF INVESTMENT OFFICER MUSICCO: Yeah, there's
18 six or seven legs to the mandate in mind for this MID of
19 sustainability. Some of those bits of the mandate would
20 find airtime at our Administration Committee meeting.
21 Some of those bits would find time specifically in the
22 Risk Management Committee or the Total Fund Portfolio
23 Management, and some would find time within the
24 Underwriting Committee.

25 So to answer your question it's yes. It just

1 depends on which part of the mandate, because they are --
2 it is multi-faceted. And that's why the individual -- you
3 know, finding the right candidate to oversee this program,
4 it's a tricky one, because we really need someone who's
5 been able to have that executive presence and that
6 experience of pulling together programs that often reside,
7 but also to have experience in the investing side, have
8 the experience in the generating, creating strategy side.

9 And so -- and the -- the great news is is we
10 actually have a few candidates who do show, you know,
11 great experience in a number of those areas. And so for
12 us now, it's just who's going to fit best culturally for
13 CalPERS. And so we've -- we've made some great traction
14 there and I'll really excited about the potential
15 candidate base for this.

16 CHAIRPERSON MILLER: Great. Thank you.

17 CHIEF INVESTMENT OFFICER MUSICCO: You're
18 welcome.

19 CHAIRPERSON MILLER: Well, thank you for the --
20 the presentation. It's been very encouraging and
21 enlightening. And at this point, I guess we'll move on --
22 well, I'm thinking in terms of timing. We're just about
23 due -- we've been at it again for about two hours. We're
24 just about due for a break and then have lunch coming
25 right up. So I think it may be wise for us to just take

1 our break and then roll into lunch and convene for 5D at
2 about 2:15.

3 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:

4 Sorry, Mr. Chair. We do still have two more
5 asset classes as part of 5C.

6 CHAIRPERSON MILLER: Yeah. Yeah.

7 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: We've
8 got the two private asset classes.

9 CHAIRPERSON MILLER: Yeah. Let's see. Yeah.

10 Well, we'll continue and then maybe see what time we wrap
11 and head to lunch, but we do need to take a break pretty
12 soon. So, okay.

13 CHIEF INVESTMENT OFFICER MUSICCO: So we'll carry
14 on then. Maybe what I'd ask then is the two private asset
15 classes that we have coming up, we -- you've had the
16 pleasure of seeing a lot of over -- over time. And so I'm
17 sure that the team won't mind, but I'm going to ask that
18 they accelerate through. This way it leaves us almost --

19 CHAIRPERSON MILLER: We don't need to curtail it,
20 because we've got -- you know, we've got the time. I'm
21 just trying to be cognizant of when we -- when we take our
22 breaks, so...

23 CHIEF INVESTMENT OFFICER MUSICCO: I'll just have
24 them be thoughtful of which pages they land on and leave
25 time for the presentation -- or sorry, for the questions.

1 Okay. We'll carry on then. Thank you.

2 CHAIRPERSON MILLER: Thank you.

3 MANAGING INVESTMENT DIRECTOR RUIZ: Okay. Good
4 afternoon.

5 --o0o--

6 MANAGING INVESTMENT DIRECTOR RUIZ: And thank you
7 for the opportunity to provide the annual program review
8 of the private equity asset class. I'll start with and
9 overview of the role of private equity in our portfolio.
10 Then we'll move into a discussion of the market
11 environment, asset class performance, and how we are
12 embedding sustainability more deeply into our program.

13 I'll conclude with a brief assessment of the
14 program as well as a look forward to priorities for the
15 coming year.

16 So on slide 71 --

17 --o0o--

18 MANAGING INVESTMENT DIRECTOR RUIZ: -- we touch
19 on the core role of private equity in our portfolio. And
20 that is to generate returns in excess of public equity
21 through investing in private companies. The program is
22 guided by our long-term priorities, which include forming
23 deep partnerships with high quality managers, ramping our
24 co-investment program, and embedding data into all aspects
25 of our program and decision-making.

1 On slide 72 --

2 --o0o--

3 MANAGING INVESTMENT DIRECTOR RUIZ: -- we
4 highlight the current market environment. As Lauren
5 mentioned earlier, there are Macroeconomic headwinds which
6 have led to a significant market pullback since the highs
7 experienced in 2021. While private equity valuations
8 shift more slowly than public equity, the underlying
9 businesses face the same environment. And we expect the
10 absolute return of private equity to decline in the coming
11 quarters.

12 At the same time, we see opportunity. The
13 valuation environment for deploying capital is more
14 attractive in times of distress, so we will seek to
15 maintain consist -- a consistent pace of capital
16 commitments, opportunistically look to add high quality
17 managers, and continue to ramp our co-investment program.
18 Our goal is to remain consistent in our approach through
19 all parts of the cycle.

20 On the next slide --

21 --o0o--

22 MANAGING INVESTMENT DIRECTOR RUIZ: -- we give an
23 overview of the private equity program, including asset
24 class performance. In any discussion of the private
25 equity asset class performance, I believe there are two

1 important principles to consider, the first is time. So
2 the goal of investing in private equity is to generate
3 long-term capital appreciation. This leads us to focus on
4 longer term performance more than individual year
5 performance.

6 The second principle is measurement points.
7 There are a number of complexities in assessing private
8 equity stemming from the fact there that is not an
9 investable benchmark, as you have with public equity. As
10 a result, we engage multiple points of measurement
11 including performance relative to our policy benchmark,
12 the peer benchmarks, and absolute performance.

13 If I could point your attention the top right
14 hand chart, we lay out private equity performance for the
15 10-, five-, three-, and one-year time periods, denoted by
16 the blue bars in the chart. To ground you in the numbers,
17 private equity generated a 13.5 percent return over the
18 past 10 years, 15.7 percent return over the past five
19 years, 18.3 percent over the past three years, and a 21.3
20 percent over the past year. Now as a reminder, private
21 equity performance is based on 3/31 valuations.

22 Relative to last year, private equity performance
23 has improved on an absolute basis across the 10-, 5-, and
24 3-year time periods. We've also laid out the policy
25 benchmark denoted by the gray bars in that same chart.

1 You can see that private equity outperformed the policy
2 benchmark for the one-, three-, and five-year time periods
3 and underperformed for the 10-year time period.

4 Last year, the private equity portfolio
5 underperformed the policy benchmark for all time periods.

6 On slide 75 --

7 --o0o--

8 MANAGING INVESTMENT DIRECTOR RUIZ: -- we've laid
9 out CalPERS private equity performance relative peer
10 benchmarks, both Cambridge and State Street. I would note
11 that these are -- that these returns are represented on an
12 internal rate of return basis, which is consistent with
13 how these peer benchmarks are reported. Here you can see
14 CalPERS Private Equity Program has underperformed peer
15 benchmarks across nearly all time periods, in many cases
16 by substantial margins.

17 As we decompose our performance along various
18 dimensions, we affirmed our assessment that the underlying
19 drivers of underperformance remain the same, a lack of
20 consistency, diversification, and cost efficiency. We are
21 addressing these issues one by one. We've continued to
22 commit capital in line with a methodical pacing plan to
23 help embed consistency into our program in a way that will
24 contribute to outperformance over time.

25 For diversification, we are actively broadening

1 portfolio through establishing new manager relationships
2 and scaling with existing high conviction managers.

3 Further, we continue to build our co-investment
4 program leading to lower aggregate program fees and closer
5 connectivity with our partners. We also completed a
6 secondary sale and we've see a step-function increase in
7 our ESG engagement.

8 For the current fiscal year, we remain focused on
9 deepening our core competencies focusing on manager and
10 company underwriting, and developing differentiated
11 knowledge in certain areas, while we will also continue to
12 expand our co-investment program and our focus on
13 sustainability.

14 Thank you for the opportunity to provide this
15 update.

16 CHAIRPERSON MILLER: Great. Thank you for the
17 update. I have a question from President Taylor.

18 COMMITTEE MEMBER TAYLOR: Thanks Chair, Miller.
19 I think the only -- I am on. Okay. I think the only
20 question I had -- I appreciate your whole report, Greg.
21 And I -- I look forward to, as we continue to ramp-up,
22 that we will continue to increase our revenue from private
23 equity. My question is you're -- we are in the ESG data
24 convergence program. We got -- and you stated
25 something -- how -- I didn't quite get how much data we've

1 gotten so far. I know it's only been active for like six
2 months or so.

3 MANAGING INVESTMENT DIRECTOR RUIZ: Yeah. We
4 formally launched it a year ago, but at that point we had
5 a very small number of groups participating. So we went
6 from call it 15, 16 groups to over 215 groups. And we now
7 have data for these metrics captured in a standardized way
8 across over 2,000 underlying portfolio companies.

9 COMMITTEE MEMBER TAYLOR: And that's going to
10 help us institute our ESG program, right --

11 MANAGING INVESTMENT DIRECTOR RUIZ: Correct.

12 COMMITTEE MEMBER TAYLOR: -- throughout the --

13 MANAGING INVESTMENT DIRECTOR RUIZ: Correct.

14 COMMITTEE MEMBER TAYLOR: -- private equity. The
15 only other question or maybe statement I want to make here
16 is promoting broad shared employee ownership models --
17 excuse me -- in private equity through our work with
18 ownership works is a great thing, except that you -- I
19 can't even imagine most companies are going to want to
20 play that game. So I would hope that we have other
21 avenues rather than just this one model from I believe
22 it's KKR of the ownership works, such as in KK's R --
23 KKR's own other funds, they aren't working with unions to
24 unionize. So I don't think it's a only, you know,
25 ownership works and not working with unions. It has to be

1 a broad, you know, spectrum of resolutions for the S in
2 ESG for workers and workforce issues. So I hope that's
3 something else you're looking into as well.

4 MANAGING INVESTMENT DIRECTOR RUIZ: Yeah. I
5 think what you'll see from us, and one risk of
6 highlighting an individual thing is it may inadvertently
7 suggest that a focus is only on that. But I think what
8 you're seeing for us is we are working to engage much more
9 broadly across these areas relative to what we've done
10 historically. So the data convergence initiative is a big
11 part of that. Ownership works is a part of that. Earlier
12 we touched on some of the -- it's more nascent, but I'm
13 really excited to report soon some of the work we're doing
14 on diversity. So I think you'll see us continue to try
15 and take on significant areas like this and embed them in
16 a much more deep way in what we're doing.

17 COMMITTEE MEMBER TAYLOR: That's awesome, yeah.
18 I think an RCP type policy using that date -- data that
19 you guys are getting would be a really good idea as you're
20 underwriting these -- the new funds and stuff, because I
21 think as we're looking at it, you want to see DE&I, you
22 want to see climate action in these private equity
23 programs, and you want to see workforce issues taken care
24 of, because those are the headline issues that come back
25 to the Board.

1 MANAGING INVESTMENT DIRECTOR RUIZ: Yep.

2 COMMITTEE MEMBER TAYLOR: So I appreciate it.

3 Thank you.

4 MANAGING INVESTMENT DIRECTOR RUIZ: Yep.

5 CHAIRPERSON MILLER: Okay. I see no more
6 questions or requests to speak from the Board.

7 --o0o--

8 MANAGING INVESTMENT DIRECTOR CORR: So I'll --
9 I'll cover Real Assets. To recap the fiscal year 21-22,
10 I'm pleased to communicate the real assets team has had an
11 active and productive year. It marks the first team the
12 year's implementation of the five-year strategic plan that
13 was approved by this Committee in July of 2020 -- 21.

14 Three key tenets of the plan included deploying
15 capital at scale in a disciplined manner to manner to meet
16 the total fund strategic asset allocation target, growing
17 our infrastructure program by sourcing and partnering with
18 market-leading managers, and expanding our business model
19 to include commingled funds and co-investments accounts
20 while maintaining a continued focus on separate accounts.

21 Go to slide 82, please.

22 CHAIRPERSON MILLER: If you can slow down just a
23 tiny bit.

24 MANAGING INVESTMENT DIRECTOR CORR: Sorry.

25 CHAIRPERSON MILLER: I'm having a hard time

1 keeping up with you.

2 (Laughter)

3 CHAIRPERSON MILLER: It's exciting stuff though.

4 --o0o--

5 MANAGING INVESTMENT DIRECTOR CORR: The role of
6 real assets specifically providing predictable cash yield
7 drives the focus on core assets that offer resiliency
8 through cycles. The real estate portfolio is concentrated
9 in well located assets with defensive characteristics.
10 And the infrastructure portfolio is comprised of essential
11 assets with predictable revenue models.

12 Consistent with the strategic plan, the team
13 continues to focus on deploying capital at scale, while
14 maintaining high underwriting standards to achieve and
15 maintain the strategic asset allocation.

16 Move on to slide 83.

17 --o0o--

18 MANAGING INVESTMENT DIRECTOR CORR: Areas of
19 concern for the real estate program include increases
20 interest rate inflation and a slow down in consumer
21 spending, which have led to some repricing in the markets.
22 Early evidence of this repricing is shifts in valuation
23 metrics. Discount and cap rates are expanding and rent
24 growth and leasing assumptions are moderating.

25 Furthermore, there remains uncertainty related to

1 long-term negative impact COVID has especially on office
2 and certain transportation assets.

3 Some themes that we're observing, investors
4 continue to be interested in private markets, which has
5 increased competition for assets. The current dry powder
6 for the real estate and infrastructure area is in excess
7 of \$600 billion. Investors are altering their portfolio
8 of construction and targeting essential assets such as
9 renewables and long-term contracted assets with inflation
10 protection. Multi-family and industrial are the favored
11 asset real estate sectors due to their essential nature.

12 Moving on to slide 85, I'll cover performance

13 --o0o--

14 MANAGING INVESTMENT DIRECTOR CORR: Real asset --
15 real assets is main -- is -- real assets is meeting the
16 return expectations set out by the capital markets
17 assumption approved by the Board. It is also living up to
18 the role by providing stable income return. Over the
19 one-, three-, five-, and 10-year periods, the income
20 return was approximately three percent. Although real
21 assets -- the real assets portfolio has shown strong
22 absolute returns, it continues to underperform the real
23 assets policy benchmark, which has been driven by the
24 outsized one-year performance in industrial and
25 multifamily of 55.4 and 36.1 respectively.

1 Core real -- core real assets outperformed the
2 benchmark over the three-, five-, and 10-year periods and
3 real estate outperformed the benchmark in the three- and
4 10-year periods.

5 Though infrastructure delivered strong absolute
6 return of over 14 percent, it underperformed the real
7 assets policy benchmark. There continues to be a mismatch
8 between the infrastructure portfolio and the real assets
9 benchmark. This is something that we will work total fund
10 to address in the future.

11 Moving on to slide 87.

12 --o0o--

13 MANAGING INVESTMENT DIRECTOR CORR: Real assets
14 sustainable investment objectives have primarily been
15 focused on integrating ESG risks and opportunities into
16 the investment process. Along those lines. We continue
17 to evaluate emerging tools to better assess physical and
18 transition risks associated with climate change and
19 research opportunities associated with energy transition.

20 The energy optimization initiative provides a
21 systematic approach for identifying attractive
22 opportunities that reduce carbon intensity and meet our
23 return expectations. There continues to be broad
24 participation from our managers and benchmarking
25 sustainable practices through GRESB.

1 Moving on to slide 88.

2 --o0o--

3 MANAGING INVESTMENT DIRECTOR CORR: After the
4 GFC, the focus of real assets was transitioned to core
5 assets because these assets provide predictable income
6 streams that much well with our longer-term liabilities,
7 protection against inflation and price volatility, and
8 resiliency through business cycles. Over the past year,
9 staff successfully deployed capital at scale. Our
10 preference remains to invest in separate accounts where we
11 have more control, transparency, and favorable fee
12 structures.

13 In Real estate, assets are predominantly owned
14 through separate accounts where we have deep strategic
15 partnerships with sector specialists, many of which are
16 long tenured with CalPERS and over 20 years. In our
17 separate account, CalPERS retains key rights, which
18 provide us better alignment with our managers. These
19 include the right to remove the manager, control leverage
20 levels, and transfer assets, and the ability to extinguish
21 allocations. Separate accounts have enhanced our
22 performance through economies of scale reducing fee loads,
23 expertise from sector specialists, and unique fee designs,
24 which rewards managers when their performance is
25 consistent with the role of real assets.

1 Infrastructure, we've expanded our manager bench
2 through strategic relationships. We invest in commingled
3 funds with co-investment components with market-leading
4 managers. Going forward, we will work with total fund to
5 address the infrastructure benchmark mismatch, where we
6 are currently benchmarking infrastructure performance
7 against a real estate benchmark.

8 A priority for the current year is to advance the
9 strategic plan implementation through -- including human
10 capital and technology resource planning.

11 To conclude, I would like to underscore the
12 importance of maintaining a disciplined and consistent
13 approach to the deployment of capital. Our focus on
14 separate account aligns manage -- with aligned managers
15 and core stabilized assets positions the portfolio
16 defensively allowing it to be resilient during periods of
17 market uncertainty.

18 As we look back, we have made good progress
19 implementing the strategic plan, but there is more work to
20 do. Thank you and I'll now take questions.

21 CHAIRPERSON MILLER: Okay. Thank you.

22 Very encouraging, particularly the continuing
23 impressive performance of the core real estate stuff.

24 So I have a question from Director Willette.

25 COMMITTEE MEMBER WILLETTE: Thank you.

1 CHAIRPERSON MILLER: Hang on. Let me try it
2 again.

3 COMMITTEE MEMBER WILLETTE: Thank you, Chair
4 Miller. Thank you again to the staff for such a really
5 thoughtful and excellent presentation today. I know we're
6 nearing the end, but I just -- as noted earlier, it's been
7 said a few times, I really appreciate the -- our
8 leadership on ESG integration into all aspects of the work
9 we do and specifically here in the real estate -- assets,
10 as noted in the Responsible Contractor Policy too. And it
11 does speak on -- I guess it's slide 87 actually, it notes
12 the GRESB, which, if I understand correctly, helps
13 establish ESG standards in real estate. And so I'd like
14 to -- I'd like to request. I know we're going to talk
15 about the RCP Policy more in November, but if you could
16 talk about how the GRESB addresses our ESG work and aligns
17 with our RCP work.

18 MANAGING INVESTMENT DIRECTOR CORR: Yeah. So the
19 GRESB questionnaire is actually quite long and the
20 managers spend a significant amount of time responding to
21 those questions. I can work with staff to get some
22 additional information to come back to you with that, if
23 that's the direction from the Chair.

24 CHAIRPERSON MILLER: Yeah. That sounds like a
25 good direction from the Committee for next time and we can

1 have a little more fulsome discussion at that point.

2 COMMITTEE MEMBER WILLETTE: Thank you so much.

3 CHAIRPERSON MILLER: Okay. I'm seeing no more
4 requests to -- for questions from the Board. So I think
5 that -- does that conclude 5D?

6 Okay. Again, thank you all for just -- I can
7 tell how much work went into this and it reflects all the
8 fine work that's been going on for months, and just really
9 looking forward to, you know, when we hear more of the
10 fruition of these new efforts. And I know that
11 particularly culture change is a -- certainly a long-term
12 project, but I think we've -- we've got such a strong
13 culture to build from and such a, you know, exciting new
14 direction and new leadership, so we're looking forward to
15 great things in the coming days.

16 So at this point, I think we will break for lunch
17 and we'll reconvene -- it's 1:30 now, say 2:45? Does that
18 sound good to everybody and with no objections we'll --

19 Okay. So -- yeah. They're for the end, because
20 they're F. Yeah.

21 So okay.

22 CHIEF EXECUTIVE OFFICER FROST: Chair Miller,
23 what -- what time for reconvening?

24 CHAIRPERSON MILLER: 2:45.

25 CHIEF EXECUTIVE OFFICER FROST: Okay.

1 VICE CHAIRPERSON FECKNER: They can't put that
2 and block people's way.

3 CHIEF EXECUTIVE OFFICER FROST: What's that?

4 CHAIRPERSON MILLER: Oh, yeah. They're -- yeah,
5 people have to be able to get out.

6 COMMITTEE MEMBER TAYLOR: Do you mean 2:15.
7 That's 45 minutes.

8 CHAIRPERSON MILLER: Oh, yeah, 2:15. Yeah.
9 2:15.

10 CHIEF EXECUTIVE OFFICER FROST: 2:15, I was
11 wondering, because that would be an hour and fifteen.

12 CHAIRPERSON MILLER: Forty-five minutes. Yeah.

13 CHIEF EXECUTIVE OFFICER FROST: Okay. Great, 45
14 minutes. Thank you.

15 CHAIRPERSON MILLER: Yeah. Okay. We'll be back
16 at 2:15, so we're adjourned for now. We're breaking for
17 now.

18 COMMITTEE MEMBER TAYLOR: Recessed.

19 CHAIRPERSON MILLER: Recessed.

20 COMMITTEE MEMBER TAYLOR: There you go.

21 CHAIRPERSON MILLER: That's the word.

22 (Off record: 1:31 p.m.)

23 (Thereupon a lunch break was taken.)

24

25

1 And so what you can see from 2013 through 2016 is
2 that broadly active return averaged about a positive 25
3 basis points or so. However, from 2016 to about the
4 middle of 2021, that active return was averaged closer to
5 a negative 25 basis points. And more recently, you can
6 see in the far right side of that chart, that's moved back
7 to a positive 25 basis points. And my point here, and I
8 think it's import -- an important one based on the
9 discussions that we've had is that the active returns have
10 been inconsistent, being above for a period of time, then
11 below, kind of averaging out to sort of close to -- close
12 to zero.

13 And the ambition of a more targeted active risk
14 taking is to improve that consistency and ideally shift
15 those results up, such that you're seeing consistent
16 outperformance relative to the benchmark kind of across
17 time. To use some financial jargon, you're looking to
18 generate alpha relative to your beta asset allocation.

19 So on page 23, this is a similar chart, but this
20 looks at that active risk result. So this is the rolling
21 tracking error of the portfolio on a three-year basis over
22 that same period of time. And as you can see going back
23 to 2012, that tracking error was north of two and a half
24 and has steadily declined over time to a low of about one
25 percent in mid-2019. Now, subsequently, that has climbed

1 back to about one and three-quarters percent. That has
2 been driven almost entirely by the active risk associated
3 with the private assets within the portfolio, as staff
4 alluded to earlier.

5 The actionable tracking error or the amount that
6 is more readily controlled by staff through active tilts
7 within the public portfolio is currently quite low at
8 about 0.1 percent, or 10 basis points. So there is
9 significant room to increase that active risk taking and
10 stay well within the Board's limit of one percent
11 actionable tracking error or actionable active risk.

12 So those are the two slides that I wanted to
13 cover here. I think it kind of illustrates a lot of the
14 points that were made in the much longer conversation with
15 staff, but let me stop there and see if there are any
16 questions.

17 Okay.

18 CHAIRPERSON MILLER: Not seeing any.

19 MR. TOTH: Fantastic.

20 So Attachment 2, I won't ask you to turn to.
21 That is our broader performance report that is created
22 independently of -- of the work that staff does. I
23 actually will move us to Attachment 3, which is getting
24 into the program reviews and the work that Wilshire does
25 in terms of evaluating the efficacy of some of those

1 programs.

2 And maybe before we dive into some of those key
3 points, I thought it would be helpful to provide some
4 background on these write-ups for the benefit of new
5 members and may -- and maybe or refresher for those that
6 have seen this before. Our annual program reviews are
7 structured very similarly to the way that Wilshire
8 evaluates external money managers. So focusing on facets
9 like the broader organization, the team that is
10 implementing the portfolio, how they gather differentiated
11 sources of information and use that to come up with
12 forecasts for security performance, and then taking those
13 forecasts and creating a portfolio, so a portfolio
14 construction score. And then how do they implement that
15 portfolio within the market, so implementation and
16 attribution. And our scoring is tiered into deciles. So
17 you can think about that as basically one through ten,
18 where the deciles, the first, second, third, and fourth
19 deciles are above average, fifth would be considered an
20 average process, and then below -- below average.

21 And we do correspond those deciles to letter
22 grades, which you might have seen in the appendix, where
23 the first and second deciles are A rated, third and fourth
24 B rated, and so forth.

25 And so these are really meant to provide the

1 Board with an independent look at the investment teams
2 really across the portfolio. And I'll focus these initial
3 comments on kind of that high level organization before we
4 delve into the -- the various teams. In past, Wilshire
5 reviews have highlighted our concerns about staff
6 stability. As everyone knows, a successful investment
7 program really requires a true long-term investment
8 horizon, and that comes from a consistent and enduring
9 investment philosophy. So stability at the senior level
10 of any investment organization is really how you build
11 that enduring investment philosophy.

12 And this year's overall organizational score has
13 been increased, given the hiring of a new Chief Investment
14 Officer. And the conclusion of that search, we feel
15 removes a substantial distraction for the broader
16 organization. And so Wilshire's evaluation and our score
17 reflects that. Other changes that are -- that impacted
18 our score are the appointment of the Interim Chief
19 Operating Investment Officer, as well as the positive
20 impacts from allowing both the DCIO and the MID of fixed
21 income to resume focusing on their established duties as
22 opposed to the interim roles which they have, I think,
23 ably fulfilled over the last year and a half.

24 We do view the updated governance very positively
25 with the establishment of those governance committees,

1 which we talked about at length around Operations and
2 Administration, Total Fund Management, and the Investment
3 Underwriting Committee. The fact that these committees
4 are made up of the senior investment professionals across
5 multiple market segments really should provide a diversity
6 of experience and insight. And we view that very
7 positively from a management perspective.

8 And lastly, on the broader organizational score,
9 we would expect that score to continue to increase, as we
10 move through time and that stability continues to be
11 demonstrated. So we didn't ratchet the score up
12 dramatically from where it was to an A. We generally take
13 a more gradual transition towards those higher -- those
14 higher rated scores, as again time and stability continue
15 to be exhibited.

16 I did want to highlight a risk around resource
17 constraints for the Board and the Investment Committee.
18 As you know, CalPERS continues to compete for talent in a
19 very tight labor market. And this isn't a CalPERS
20 specific issue. This is one that is impacting certainly
21 many investment management organization and frankly
22 industries really across the economy.

23 Of note, I would point out that the teams are
24 stretched in private debt and global fixed income. This
25 is quite impactful, given the new dedicated allocation to

1 private debt and expanded mandate within global fixed
2 income with the emerging markets sovereign bond portfolio
3 target.

4 Importantly, as we think about things that can be
5 done to improve the resources associated in the Investment
6 Office, discussions around compensation are certainly
7 going to come up around that and we think that any of
8 those discussions really need to take into account the
9 understanding of the risks that changes can introduce.
10 These risks can be personnel related around turnover or
11 recruiting and retention, or portfolio related. And
12 that's an important dynamic, because it can impact how
13 much active risk is actually incorporated across the
14 investment programs. And I know a deeper dive is
15 scheduled to have these discussions within the appropriate
16 committee and we think that is absolutely a good
17 opportunity to delve further into those aspects.

18 As you heard in the earlier staff discussion,
19 active risk management is a strategic priority moving
20 forward. And there is significant desire to explore
21 adding additional active strategies through a focused what
22 we would call a risk budgeting lens. That's a term that
23 you will hear quite a bit I think going forward. And in a
24 challenging return environment, and we've talked about
25 this over the years with, you know, low expected returns

1 in some asset classes, active risk taking presents the
2 opportunity to enhance returns, but it needs to be pursued
3 in an efficient manner.

4 And the specific details that underlie the
5 pursuit of those returns are really going to be critical
6 to -- to its success. So Wilshire, as the Board
7 consultant, will need to evaluate them on a case-by-case
8 basis, before we opine on their relative merits. And I
9 imagine we'll be very actively involved with that
10 discussion and certainly look forward to it moving
11 forward.

12 And the value of that active management comes not
13 just in enhancing returns in a vacuum, but ideally is
14 doing so in a manner that's uncorrelated to broad market
15 direction in order to compound positively. So that's
16 outperformance. I think it's important to recognize that
17 outperformance in a down market is just as valuable as
18 outperformance in an up market. And so that's really what
19 we're striving for when we're talking about alpha, that's
20 excess return that's uncorrelated to broad market
21 directions.

22 Those are my comments on the broader
23 organization. Happy to answer questions before I turn it
24 over to my colleague to cover a few of the investment
25 programs.

1 CHAIRPERSON MILLER: Okay. Seeing no questions,
2 I would say carry on.

3 MR. TOTH: Ali.

4 MR. KAZEMI: Good afternoon, Ali Kazemi,
5 Wilshire.

6 I wanted to cover two of the programs before
7 handing it back over to Tom. First is the Trust Fund
8 Portfolio Management Program, and the role of TFPM within
9 the portfolio has undergone several evolutions throughout
10 the years. However, one common theme that we noted in our
11 review this year is over the last 12 months that those
12 core functions have been fairly similar than what we
13 reviewed last year. So that was nice to see.

14 We largely break out the functions into four
15 categories. One is allocation management. You can think
16 of that as the team that handles much of the day-to-day
17 work of not only the PERF, but the Affiliate Funds. We've
18 got the investment treasury and trading function, which
19 was centralized several years ago. And it's meant to help
20 reduce some of the operational risks related to the
21 trading function.

22 The Research Economics Group supports PERF by
23 driving thought leadership and assisting with support on
24 various projects for other programs within the broader
25 investment team.

1 Portfolio Strategies a complement to the Research
2 Group, it's really focused on the strategic asset
3 allocation evaluation looking at drawdown risk and helping
4 to provide asset class research support for the other
5 programs.

6 Lastly, the portfolio design team, this is a
7 recent carve-out under TFPM, which started last year. The
8 intention is to complement the portfolio construction
9 process by helping to guide how the approved asset
10 segments essentially come together. And so, you know,
11 utilizing our standard framework for scoring, which Tom
12 touched on in his comments, our scoring places the TFPM
13 team in the fourth decile. That is a slight downgrade
14 from last year, when it was third decile. And the primary
15 driver for that decrease is really related to resource
16 issues. And Tom touched on that in his comments as well.

17 We have noted that there are issues related to
18 resources within that team, some open positions that are
19 still in the process of being filled. And so our scoring
20 was primarily driven by that. The information gathering,
21 forecasting, and portfolio construction scores are still
22 very strong and our team and attribution scores remain
23 high. So that -- that slight decrease still keeps it in
24 the above average territory, but is a reflection of some
25 of those resource questions that we raised in our opening

1 comments.

2 Moving forward to the global equity program,
3 Simiso was up here earlier to kind of walk through the --
4 the Global Equity Program as a whole. And I think his
5 comments were well said in terms of describing its -- it's
6 role. But just to reiterate, its mandate is to
7 essentially deliver the global equity beta risk premium,
8 which is that strategic exposure to global growth, which
9 has obviously been front and center and some of the
10 performance discussions that we've had today. You can
11 think of the three underlying core functions of global
12 equity broken out by portfolio implementation, portfolio
13 structuring, and then the corporate governance component,
14 which Simiso also touched on.

15 In our view, this program has essentially
16 performed as expected over the last 12 months. And
17 Wilshire sees a high degree of consistency between our
18 review last year and in talking with the team this year.
19 The major improvement really coming from the hiring of the
20 MID, which has been viewed as a very positive development
21 for the overall team and kind of the overall culture
22 within the team, so we're very high on that -- that move.

23 In addition, just from a performance standpoint,
24 you know, that portfolio is vastly index oriented with
25 almost 97 percent of the assets in index-oriented

1 strategies. Even with that tight tracking error, the
2 portfolio has been able to add some incremental value,
3 about 15 basis points this year on top of 31 basis points
4 the previous year. So given that tight tracking error
5 band, it's nice to see that some of those legacy existing
6 active and alternative beta strategies are adding value
7 in -- over the last two years frankly.

8 So given all of that, in terms of our scoring,
9 the GE program is still in the third decile. So this is
10 the same score as last year. As Tom mentioned, third
11 decile leads to about a scoring of B from a letter grade
12 standpoint, above average. This reflects a minor increase
13 in the quality of the team score with the hiring of the
14 new MID, as well as a minor increase in the information
15 gathering score, as we felt that really -- really positive
16 communication between not only GE but the TFPM team in
17 terms of those research groups communicating with each
18 other, working through the implementation of the strategic
19 asset allocation. And so that also was a factor in
20 increasing that segment score.

21 So overall, the score continues to reflect a very
22 strong team that is engaged with new leadership in place.
23 The communication channels seem to be strong and
24 reflective of what we think is a very collaborative
25 culture.

1 So with that, I'm happy to answer questions
2 before passing back to Tom for the rest of the segments.

3 CHAIRPERSON MILLER: Thank you. Yeah, we have
4 several questions. We'll start with Frank Ruffino.

5 ACTING COMMITTEE MEMBER RUFFINO: Thank you, Mr.
6 Chair. I had a question for Tom earlier about the
7 co-investments. So I noted obviously in your report on
8 Attachment D that staff completed and aggregated two
9 billion, or 20 -- or approximately 21 percent of the
10 aggregate commitments, no low fee co-investments, and so
11 on. So the question is, is as the team has ramped up
12 activity in this area, are there any early indications on
13 how these co-investments are performing?

14 MR. TOTH: Mr. Ruffino, I probably would defer
15 to -- to the private asset consultant to discuss that or
16 potentially Mr. Ruiz as well. I can certainly give
17 general commentary, but specifics I think I would -- it
18 would be better left to them.

19 Did we want to do that or...

20 ACTING COMMITTEE MEMBER RUFFINO: We can get the
21 answer later, Mr. Chair.

22 CHAIRPERSON MILLER: Okay. Thank you.

23 ACTING COMMITTEE MEMBER RUFFINO: Thank you.

24 CHAIRPERSON MILLER: Okay. Next, I have
25 President Taylor.

1 COMMITTEE MEMBER TAYLOR: Yes. Thank you.

2 I had a couple of questions. I don't know if
3 it's for you guys or for Dan and Nicole. You were talking
4 about resourcing issue and I guess I have a -- as I
5 understood it, there are positions available. Did we wait
6 to fill them because we didn't have the CIO? Is that why
7 we had resourcing issues? Because I'm pretty sure the
8 Board has made it very clear that if you need positions --
9 Oh, Michael, there we go.

10 INTERIM CHIEF OPERATING INVESTMENT OFFICER COHEN:

11 Hi. Good afternoon. Michael Cohen with the
12 Investment Office.

13 I think the answer -- certainly like everywhere
14 in State government, the Investment Office and all of
15 CalPERS is struggling sort of filling some of its
16 positions, where we used to get dozens, if not hundreds of
17 applications. But more broadly than that, you'll recall
18 that the executive team at CalPERS established a position
19 pooling concept, where those positions that weren't needed
20 by a particular area are available basically for any of
21 the branches to make a proposal for, and then the
22 executive team can sort of authorize additional positions.
23 So I think between working through filling positions, that
24 certainly some of them were held as we were kind of
25 waiting for Nicole to get on board, and then there's a

1 domino effect downward.

2 COMMITTEE MEMBER TAYLOR: Okay.

3 INTERIM CHIEF OPERATING INVESTMENT OFFICER COHEN:

4 Between that and access to additional positions
5 from the pool to -- we have -- the executive team has
6 already provided a substantial number of positions, more
7 than a dozen, to the Investment Office in the areas that
8 really saw the greatest expansion under the strategic
9 asset allocation. So all of the private assets that
10 you've been talking about the rest of the day. So those
11 are just about filled up, so --

12 COMMITTEE MEMBER TAYLOR: We're moving on from
13 there.

14 INTERIM CHIEF OPERATING INVESTMENT OFFICER COHEN:

15 Yeah, we're -- I think going forward, I don't
16 want to understate that there is a challenge certainly in
17 filling positions, but we do have resources from a
18 position allocation standpoint within the organization
19 that should not be constraining upon the Investment
20 Office.

21 COMMITTEE MEMBER TAYLOR: Okay. I just wanted to
22 make sure, because I thought we were pretty clear about
23 that. Go ahead, Dan.

24 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Yeah.

25 The only -- I agree with everything Michael said. The

1 only thing I would add to it is that we -- we've had a
2 number of positions -- and Arnie spoke about it a little
3 bit too during the program review, we've had a number of
4 positions sort of in the market. We're making traction on
5 a lot of them, but we're also having challenges in some of
6 them.

7 COMMITTEE MEMBER TAYLOR: Okay.

8 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: We
9 found that we're going out with recruiters more
10 frequently. You know, it's just a -- it's a tight labor
11 market. You know, Sacramento can present a challenge. It
12 also presents an opportunity. It can present a challenge.
13 We -- you know, we've talked about our -- you know, all of
14 the aspects of our sort of employment program including
15 compensation, location, all of those things. And we're
16 working our way through, but we've -- I agree with Michael
17 that we've definitely had the support of the organization
18 and of the Board. It's just a tight labor marketing and
19 we're working through it.

20 COMMITTEE MEMBER TAYLOR: Okay. I just want to
21 make sure, because that can't possibly be a primary factor
22 of poor performance, I wouldn't think, because I -- I
23 hadn't heard about that until just now, so -- and I -- I
24 will say, Tom, you kind of gave us kind of an idea of what
25 factors -- and Nicole did earlier of what factors led into

1 poor performance. And we get it. You know, we needed to
2 be better in private assets. And there were a couple
3 of -- you know, a bunch of other things that factored into
4 the performance.

5 I just want to make sure that we're not
6 highlighting -- I think both of you, both said it was the
7 primary thing, the resourcing issue, and I just -- I just
8 disagree with that. I don't think that was the primary
9 issue.

10 MR. TOTH: And President -- President Taylor,
11 maybe -- let me clarify it. My point was that it's --
12 it's a risk --

13 COMMITTEE MEMBER TAYLOR: Sure.

14 MR. TOTH: -- not a driver of underperformance
15 necessarily. And so as we're -- as we're looking at the
16 efficacy of implementation moving forward with the shift
17 in the asset -- the strategic asset allocation, trying to
18 anticipate the resources going forward. So that was
19 really more of a prospective risk factor than it is a
20 reason for past performance.

21 COMMITTEE MEMBER TAYLOR: Okay.

22 MR. TOTH: It was very much forward looking --

23 COMMITTEE MEMBER TAYLOR: Gotcha.

24 MR. TOTH: -- not backward looking.

25 COMMITTEE MEMBER TAYLOR: My -- my

1 misunderstanding.

2 MR. KAZEMI: Yeah, I would just echo what Tom
3 said. I mean this is meant to be kind of a qualitative
4 view of the team and the structure itself rather than a
5 justification tying historical performance to what we
6 evaluated qualitatively. We -- we do factor in
7 performance in terms of making sure if there are any
8 outliers that we can explain those types of things, but
9 really this is meant to be more of a qualitative review of
10 kind of not just staffing but overall communication, what
11 we see in terms of how the groups are working together.
12 And -- and albeit, these are very, very slight decreases.
13 When we look at the actual scoring methodology, we're
14 talking like razor thin decreases here, but it is -- we
15 want to be as transparent in terms of, you know,
16 communicating what that means in terms of our -- our
17 rankings.

18 COMMITTEE MEMBER TAYLOR: Okay. Great. I
19 appreciate that. Thank you.

20 CHAIRPERSON MILLER: Okay. Next, we have
21 Controller Yee.

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

23 Just a couple questions. I haven't heard
24 anything mentioned with respect to leverage. And I just
25 wanted to kind of get your thoughts, and I'll ask this of

1 Meketa as well, with respect to some of the other asset
2 classes, but is the amount of leverage in the portfolio
3 appropriate? Are we able to make any assessment around
4 that issue? And I think when we hear about private debt
5 and real estate, I'm just curious as to whether as do the
6 fundamental changes with respect to those areas, whether
7 we're entering into a more, you know, kind of risky
8 situation as it relates to leverage.

9 MR. TOTH: Sure. Ms. Yee, Maybe I'll touch on
10 the leverage aspect just to answer the question right up
11 front. Yes, I think the amount of leverage remains
12 appropriate and not outsized relative to the portfolio
13 construction goals that you have moving forward. I can
14 say that we've been closely involved in discussions with
15 staff around implementation and a very -- it's a very
16 judicious step into the strategic leverage target that's
17 been approved. It is not something that is being
18 implemented, you know, in one fell swoop because that
19 would --

20 COMMITTEE MEMBER YEE: Um-hmm. Good.

21 MR. TOTH: -- introduce and aspect of market
22 timing we don't think is appropriate, so it's being very
23 thoughtfully implemented. So we feel comfortable with
24 where that currently stands. And then I believe your
25 second question was around private debt and potentially

1 impacts of leverage there. Certainly, fundamentals, much
2 like broader credit markets are -- have gotten more
3 challenged, with -- with spreads rising. That's true in
4 both the public and the private side.

5 I think the benefits on the private side is as
6 the investor you can be more involved in the structuring
7 of those opportunities and it gives you a greater
8 opportunity to drive some of those -- to put in place
9 those values drivers to protect yourself as the lender.
10 And as things are more challenged in the broader global
11 market, the private debt borrowers are more open to it,
12 because frankly they kind of need your capital.

13 COMMITTEE MEMBER YEE: Yeah, exactly.

14 MR. TOTH: And that's a benefit for CalPERS.

15 COMMITTEE MEMBER YEE: Um-hmm. Good. Good. No
16 that's -- I am very happy to hear that response.

17 And then just kind of in your opinion, has --
18 have the defensive positions that CalPERS has taken to
19 reduce drawdown risk paid off?

20 MR. TOTH: So the one that has is the low
21 volatility equity. And I'll show that to you when we get
22 to one of the later attachments, the trust universe
23 comparison.

24 COMMITTEE MEMBER YEE: Okay.

25 MR. TOTH: The one that did not during this

1 drawdown was the longer duration aspect of the fixed
2 income portfolio. That has been a challenge. The long
3 treasury being purest example. But true in the -- true in
4 the long credit side as well, it has interest rate
5 sensitivity. So it's -- I'll say it's a bit of a mixed
6 result there. The mitigation from low volatility equity I
7 would say has worked as expected strategically --

8 COMMITTEE MEMBER YEE: Um-hmm.

9 MR. TOTH: -- over the last call it 18 to 24
10 months, long duration fixed income has not.

11 COMMITTEE MEMBER YEE: Okay. I appreciate that.
12 Thank you.

13 MR. TOTH: Um-hmm.

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

15 CHAIRPERSON MILLER: Mr. Pacheco.

16 COMMITTEE MEMBER PACHECO: Thank you.

17 CHAIRPERSON MILLER: Director Pacheco.

18 COMMITTEE MEMBER PACHECO: Thank you. Thank you,
19 Chairman Miller. Thank you, Tom, for this information.

20 So my question is back on the -- on I think it's
21 Agenda Item 5D, Attachment 3, 7 -- page 7 of 23 on -- on
22 the scoring. But what I wanted to know was with -- with
23 respect to the new governance framework that we've
24 outlined earlier in this -- earlier in our talk, do you
25 feel -- what is your opinion that the -- that the staffing

1 challenge may have on future -- the future what Wilshire
2 quantitative score? Do you -- where -- where do you think
3 that may land in your opinion?

4 MR. TOTH: Mr. Pacheco, hard to say. I -- I
5 would expect that, as was alluded to earlier, progress is
6 being made in terms of ramping up stamp -- staffing, and
7 so we are cognizant of that. In some of the discussion
8 that we have internally as well as when we're having
9 regular reviews with -- with the program deems is looking
10 at the org chart --

11 COMMITTEE MEMBER PACHECO: Um-hmm.

12 MR. TOTH: -- and looking at reporting lines,
13 looking at where open positions are, and understanding the
14 history of that. So how has the size of the team shifted
15 over time based on their -- their mandates? And so I
16 think as we move forward and we see some of the, you know,
17 I'll call it new hires, come in to fill some of the, I'll
18 call it, more specialize -- specialized roles in -- in the
19 private debt area, for example, or maybe partnerships
20 on -- on the emerging sovereign side, that will factor in.
21 But I don't want to forecast and say I would expect, if
22 that happens, then our scores will go to X. It's a --
23 it's a much more qualitative discussion than that.

24 COMMITTEE MEMBER PACHECO: So it's a -- it's a
25 wait and see kind of moment then basically, in your

1 opinion.

2 MR. TOTH: Yes, but I want to be very clear that
3 as this is essentially an ongoing process, this is not
4 just a discussion that happens once a year and then we
5 report this to the Board. We are interacting with staff
6 on behalf of the Board as your consultant through the
7 year, every month, multiple times, depending on which
8 programs we're talking to. And so if we were to see an
9 issue that would require, you know, immediate concern --
10 caused immediate concern, we would bring that up to you
11 well in advance of sort of the wait and see to the next
12 go-around of these programs review.

13 MS. DEAN: So if I may add just one comment.
14 Rose Dean at Wilshire. The reason why we highlighted the
15 issue with staffing within the Private Debt Program is
16 twofold. One, obviously it's a new allocation, which
17 requires a lot of work up front to deploy the capital
18 that's been allocated. So that has been the focus of the
19 staff to deploy that capital as judicious -- judiciously
20 as possible, as well as quickly as possible.

21 The second part here is that as the capital gets
22 deployed, now the staff is not only charged with deploying
23 additional capital to get to the target, but to manage the
24 existing invested portfolio, so in terms of portfolio
25 management as well as finding new investments will be an

1 additional task for them to manage the portfolio
2 judiciously. So we're highlighting that as the program
3 ramps up, there will be additional needs for -- for staff
4 to be further enhanced.

5 COMMITTEE MEMBER PACHECO: Okay. That -- and --
6 that brings back to the same question again when you
7 mentioned earlier that both private equity and private
8 debt are -- you know, the staffing is very thin. I mean,
9 there's not -- they're really tight with respect to what
10 they're doing, so -- so what is -- I guess the question is
11 how -- how are we -- what do we need to do as -- as --
12 from a Committee perspective to kind of, you know, keep --
13 get it -- get it going, get the hiring going and so forth?
14 I mean, what are your thoughts on that?

15 MR. TOTH: So if -- if I may very quickly, I
16 think President Taylor's comments are -- go a long way
17 towards addressing that effective --

18 COMMITTEE MEMBER PACHECO: Yeah.

19 MR. TOTH: -- not to put words in your mouth, but
20 you have the resources you need. Tell us what you need
21 and we will support you --

22 COMMITTEE MEMBER PACHECO: Yeah.

23 MR. TOTH: -- as a Committee. So I think it's
24 been addressed.

25 COMMITTEE MEMBER PACHECO: Okay. Very good then.

1 Thank you.

2 MR. KAZEMI: Yeah. I would just add to that, you
3 know, in terms of kind of the subcomponents, when we --
4 when we score that area, you know, we look at commitment
5 to improvement, we look at the quality of the existing
6 team, and then we look at stability. And when we look at
7 the commitment to improvement, we've rated that as an A.
8 When we look at the quality of the existing team, we've
9 rated that as an A. Where the -- the scoring was brought
10 down, it's just the stability component of that.

11 So you've got the commitment, you've got the
12 quality of the folks already here. It's just about seeing
13 some stability going forward --

14 COMMITTEE MEMBER PACHECO: Yes.

15 MR. KAZEMI: -- in terms of the retention and
16 recruiting. And that would naturally lead, I think, to
17 higher scores in the future.

18 COMMITTEE MEMBER PACHECO: Thank you very much.

19 CHAIRPERSON MILLER: Okay. Thank you.

20 Next, we have Director Middleton.

21 COMMITTEE MEMBER MIDDLETON: All right. Tom,
22 Ali -- (clears throat) excuse me -- thank you.

23 A couple of areas. Could you talk about your
24 comfort level with ESG strategies that are being employed
25 in the Investment Office, and most specifically do you

1 have any elevated concerns when it comes to private equity
2 and private debt in embedding ESG into the programs?

3 MR. TOTH: Ms. Middleton, let me think about the
4 best way to answer this. So I don't -- I wouldn't say
5 that we have elevated concerns about utilizing ESG as part
6 of the investment process within private equity, private
7 debt, or other areas either. I think ultimately these are
8 risks factors that -- and that a prudent investment
9 process should take into account in terms of deciding
10 whether the risk-adjusted returns that are likely to be
11 delivered by those strategies are prudent. So, no, I
12 don't think there is elevated concern there.

13 But you'll almost never hear me say there is no
14 concern, because I tend to worry too much is what it boils
15 down to.

16 (Laughter)

17 COMMITTEE MEMBER MIDDLETON: So the argument
18 that -- phrased differently, that private equity, private
19 debt creates greater ESG risk is not one you would accept,
20 is that accurate?

21 MR. TOTH: I think it's -- Ms. Middleton, I think
22 it will ultimately be opportunity-specific. I could come
23 up with scenarios where it does, but then I could come up
24 with counter scenarios where it's -- where it's addressed
25 and mitigated through things like the RCP, which was --

1 which was mentioned earlier. So I wouldn't want to draw
2 blanket statement.

3 COMMITTEE MEMBER MIDDLETON: All right. Thank
4 you.

5 MR. TOTH: Um-hmm.

6 COMMITTEE MEMBER MIDDLETON: Another area.
7 Earlier this morning, staff outlined some changes with the
8 PPO process. Are you comfortable with the changes as
9 recommended?

10 MR. TOTH: We are comfortable. And I wanted to
11 specifically address the lack of the PPOs in the
12 opportunistic strategies. It is something that we pointed
13 out in our opinion letter to the Board and discussed with
14 staff. And it comes down to, as was stated, balancing
15 nimbleness of investment decision-making with prudent
16 governance. And I think because of the governance
17 structure, particularly the underwriting committee, that
18 provides an appropriate level of governance, so that the
19 Board can feel comfortable that there are multiple eyes on
20 all of those opportunities.

21 And to the extent a PPO is used, it's very much a
22 belt and suspenders approach. It's not a replacement for
23 the diligence that's being undertaken by staff. And I
24 think that's an important thing to remember.

25 COMMITTEE MEMBER MIDDLETON: Fair enough. Thank

1 you.

2 CHAIRPERSON MILLER: Okay. I'm not seeing
3 anymore requests to speak, so --

4 MR. TOTH: I will, if I may, Mr. Chair, just
5 quickly touch on the other two programs, the one being
6 Global Fixed Income. As the staff stated earlier, that is
7 a portfolio that is strategically designed to provide
8 diversification, particularly against equity risk, as well
9 as a high level of liquidity and income. It is
10 substantially actively managed with more than 95 percent
11 of the portfolio managed internally, and the rest
12 outsourced to a few key external managers.

13 From an active return standpoint, the GFI
14 Program, it almost matched the benchmark. It was
15 effectively in line over the last one-year time period.
16 But over longer term time periods, the global fixed income
17 portfolio has been one of the most consistent sources of
18 value-add, again relative to the benchmark in the
19 portfolio.

20 Our qualitative assessment of that program places
21 it in the third decile, which is the same as last year.
22 It does reflect the impact of that increase in the
23 organizational score, but a reduction in information
24 gathering resources, as they have lost a team -- a few
25 team members, and we want to reflect that. It does a

1 consistent score within portfolio construction and the
2 implementation, which were very highly rated, remains.
3 And overall, that third decile score we think does reflect
4 a strong team in place and long-term success at managing
5 that portfolio in a very challenging environment. By some
6 estimates, the most challenging fixed income environment
7 in a hundred plus years, if you -- if you look at some of
8 the -- the longer term academic studies.

9 The last program is the Opportunistic Strategies
10 Program. As we talked about earlier, it's meant to invest
11 in strategies that don't fit neatly into one specific
12 asset class, but do have relative value characteristics to
13 enhance performance. And during the past few years, the
14 program has been focused on building out private debt and
15 has really incubated the initial commitments that are now
16 kind of those first -- the first ones within the new
17 private debt allocation.

18 We ranked the OS Program in the third decile as
19 well. We feel it's led by very talented staff who have a
20 very strong understanding of the opportunity set and the
21 value drivers, particularly the demonstrated ability
22 within private debt with some very strong performance,
23 which -- which Arnie walked through earlier.

24 And then we have talked about as that area grows
25 and we -- the requirements for portfolio construction, as

1 well as committing new capital become more acute, we do
2 think it could stand to utilize -- to bring in some
3 additional resources

4 There is more detailed information on the scoring
5 in the appendix of that opinion letter, but I will stop
6 there and answer any questions before we move on to the
7 universe comparison report.

8 CHAIRPERSON MILLER: I'm not seeing anymore
9 requests for questions, so continue on.

10 MR. TOTH: Okay. Great.

11 So Attachment 4 is the trust universe comparison
12 service report. So if we could pull that up. And I
13 wanted to again I think make some -- some comments, which
14 hopeful will be additive to a lot of the information that
15 we've talked about already. So the CalPERS portfolio
16 ranked at the 59th percentile over the last fiscal year
17 and at the 80th percentile over the past 10 years. Staff
18 earlier provided insight into how the portfolio has
19 evolved over that time. And the information that we
20 collect independently as part of this comparison have
21 confirmed many of those takeaways. The portfolio has been
22 structured with lower exposure to growth-oriented
23 investments, felt most acutely in a lower level of
24 exposure to private equity.

25 And Ms. Yee and Mr. Ruffino earlier asked about

1 risk versus peers. If we look at slides four and five of
2 the TUCS presentation, you will see that the -- the PERF
3 portfolio has lower risk in comparison as it plots to the
4 left of the median risk line, so the line that's going up
5 and down. So it's to the left relative to peers.

6 Over the last three years, the PERF's volatility
7 was 11.24 percent versus a median risk level of over 12
8 percent. So it's certainly fair to say the PERF portfolio
9 exhibits a lower level of measured volatility, and that's
10 been a drag on returns relative to peers over the last
11 five years as riskier assets have outperformed.

12 --o0o--

13 MR. TOTH: On slide six, that is a comparison of
14 the asset allocation across for the PERF in comparison to
15 larger public pension systems. The two differences that
16 jump out are, in fact, that higher-than-average allocation
17 to global fixed income that is inclusive of both
18 investment grade and non-investment grade exposures, and a
19 lower-than-average allocation to private equity. And
20 we've talked at length about how much that has impacted
21 returns relative to peers.

22 Turning to some of the underlying composites, I
23 did want to highlight just a few items to provide some,
24 I'll say, quantitative support to some of the comments
25 that -- that have been shared today.

1 If we look at page seven and compare the global
2 equity portfolio, it does include that dedicated
3 allocation to factor exposures. And that equity factor
4 exposure did protect on the downside, to Ms. Yee's earlier
5 question, over the last fiscal year. And, in fact, the
6 global equity portfolio rather -- relative to peer, global
7 equity portfolios ranked at the top quartile, at the 25th
8 percentile.

9 So it worked over the last fiscal year. But that
10 lack of growth exposure, as Nicole's earlier slides
11 showed, was a drag, particularly during the post-pandemic
12 rally where growth-oriented stocks, large cap tech in
13 particular, dramatically outperformed relative to the
14 broader market.

15 --o0o--

16 MR. TOTH: On page nine, we can look at private
17 equity. Over the last 10 years, the portfolio ranks at
18 the 41st percentile, so it is above median, with a return
19 of 13 percent. And that -- again quantitative support to
20 earlier comments, that's a premium of almost three percent
21 relative to public equity returns over that 10-year time
22 horizon.

23 --o0o--

24 MR. TOTH: If we look at global fixed income on
25 page 11, there's no question that the portfolio has

1 struggled versus peers over the last two years, given its
2 longer duration positioning and higher sensitivity to
3 interest rates. It is worth noting though that if you
4 look at the 10-year results, even inclusive of those last
5 two years, the fixed income portfolio ranks at the 37th
6 percentile versus peer fixed income portfolios, so almost
7 at the top third of that universe over that full 10-year
8 horizon.

9 And then one final comment on those underlying
10 mandates, if you turn to real estate, the real estate
11 portfolio has outperformed peers over the past 10 years,
12 also, coincidentally at the 41st percentile over that
13 10-year time frame. So hopefully that provides a little
14 bit more context and peer comparison information from
15 TUCS.

16 And I'd be happy to answer any questions that the
17 Committee has.

18 CHAIRPERSON MILLER: I'm seeing no questions, so
19 think everybody is good.

20 MR. TOTH: Fantastic. Well, I think I will turn
21 it over to Meketa who -- which will -- who will handle
22 the -- I believe the last three attachments in that agenda
23 item.

24 CHAIRPERSON MILLER: Great. Thank you very much.
25 We really appreciate your input.

1 MR. TOTH: Absolutely. My pleasure.

2 CHAIRPERSON MILLER: And welcome to Meketa.

3 MR. McCOURT: Good afternoon. Yes, there's more.

4 It's Steve McCourt, Meketa Investment Group. To
5 my right Steve Hartt, to his right Christy Fields.

6 To go through our reports verbally, fairly
7 efficiently, I'll be going through them, but obviously
8 we're happy to answer questions, either along the way
9 or -- or at the end.

10 The theme of this meeting seems to have been
11 humility about the last 10 years. As I thought about
12 these asset classes, their performance historically has
13 actually been quite good. I think where the humility
14 might be needed is on a forward-looking basis. And so I
15 wanted to talk a little bit at the beginning about the
16 market environment and -- and pricing of private markets.

17 As staff indicated in going through the -- the
18 performance review, your private market asset classes are
19 valued as of March 31st. So there's a lag in the
20 valuations. To say the least, March 31st was a very
21 different point in time than -- than today is. And the
22 most significant change has been the increase in interest
23 rates in the economy over that time period.

24 The public markets generally reflect price
25 movements in real-time. In fact, sometimes they overreact

1 to -- to changes in -- in fundamentals in the economy.

2 The private markets take a long time to do that. So while
3 interest rates have moved up considerably, the 10-year
4 treasury bond today is yielding three and a half percent
5 give or take a few basis points. Huge increase from the
6 beginning of the year. Most private market asset classes
7 haven't yet begun to reflect how rising interest rates or
8 higher interest rates will impact valuations. And that's
9 for a variety of factors, partly having to do with the
10 lagged nature of valuations partly having to do with those
11 valuations being based on transactions in the marketplace,
12 and it takes awhile for transactions to occur under new
13 economic realities.

14 All of this is to say that the roughly 30 to 40
15 percentage point outperformance of private markets over
16 public markets in your fiscal year will erode at some
17 point in the next year, not fully hopefully, but some
18 portion of that will erode as -- as private market
19 valuations begin to reflect the economic reality of rising
20 interest rates.

21 So with that rosy note, I will -- I will go into
22 the performance first of private equity. For your fiscal
23 year ending June 30th, the private equity portfolio was up
24 21.3 percent, outperforming your policy benchmark by 13
25 percentage points. I wanted to highlight here the fairly

1 significant improvement in returns versus your benchmark
2 over the last five years. Five years ago over the then
3 trailing five-year period, your Private Equity Program was
4 underperforming its benchmark by over two percent per
5 year. In this five-year most recent period, you're
6 outperforming by two percent per year. So a really nice
7 turn around in -- in relative performance of -- of private
8 equity.

9 In terms of implementation, to echo some of the
10 comments that Greg highlighted and has continually
11 communicated to the Committee in the strategic plan
12 updates, the private equity team has done a really strong
13 job over the last several years in more consistently
14 deploying capital each year, increasing the cost
15 efficiency of the program through more co-investments that
16 are being executed and adding to diversification of the --
17 of the portfolio by investing more in sectors of the
18 private equity markets that were underexposed previously.

19 For the most recent year, your private equity
20 staff made 69 commitments totaling \$17 billion. Five or
21 six years ago, that number was more like four or five
22 million[SIC] dollars, so significant increase in activity
23 in recent years. Your private equity program was in
24 compliance with all of its policy limitations.

25 Moving on to real estate. Similar commentary on

1 the real estate market. It has yet to reflect significant
2 adjustments in valuations as a result of interest rate
3 movements in the economy. We await for those. The -- the
4 cap rate of the real estate -- institutional real estate
5 market on March 31st when this report was done was 3.7
6 percent. Today, the 10-year treasury bond is 3.7 percent.
7 The difference between the cap rate and the 10-year
8 treasury bond is typically two to two and a half
9 percentage points. So one would think that there's --
10 there's an adjustment coming down the road eventually.

11 As has been remarked, your real estate staff has
12 continued to focus the bulk of its activity around core,
13 high quality, income-paying properties. That strategy has
14 continued to -- to pay dividends in the form of strong
15 performance for your. As we look at your core portfolio,
16 the trailing three, five, and 10 years, the core portfolio
17 is outperforming your benchmark by -- by sizable margins
18 over each of those -- each of those periods. Your Real
19 Estate Program, like Private Equity, is currently invested
20 within all the policy parameters.

21 And then finally on infrastructure, the
22 performance of infrastructure for the year was positive
23 14.7 percent. Fairly modest compared to private equity
24 and real estate, but certainly a strong return number on
25 an absolute perspective. Sarah noted during her report

1 about the benchmark mismatch between infrastructure and
2 real estate, you'll note in our semi-annual reviews, we
3 also show the consumer price index, which was the previous
4 benchmark for real estate, and the program continues to
5 outperform that benchmark meaningfully over time.

6 The one item I want to note quickly relates to
7 the policy request to allow for a somewhat higher
8 allocation to international infrastructure assets. As
9 we've noted before, infrastructure has been and continues
10 to be an asset class that is transacted at higher volume
11 outside the U.S. And as a consequence as CalPERS views
12 the asset class in those assets as attractive for its
13 long-term return objectives, the -- the amount of assets
14 outside the U.S. will have to increase in scale with the
15 overall program. So that's -- that's the general
16 rationale for that -- that policy request.

17 I will close my comments there and happy to
18 answer any questions that anyone has on the three asset
19 classes.

20 CHAIRPERSON MILLER: Okay. Thank you for that.

21 I'm not seeing any questions or requests to speak
22 to that, so I thank you.

23 MR. McCOURT: Thank you.

24 CHAIRPERSON MILLER: Very much appreciated.

25 So I think that if no one has anything else, that

1 will bring us to the summary of Committee direction.

2 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: All
3 right. I noted two bits of Committee direction. First of
4 all, as a -- as we mentioned, we have planned to take the
5 Responsible Contractor Program update to an information
6 item, not information consent, but we also took direction
7 to add sort of the GRESB lens to that and sort of how
8 they -- how they align.

9 CHAIRPERSON MILLER: Yeah.

10 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: And
11 then the second one was also from Director Willette and
12 had to do with on many deals we've missed as a result of
13 the current delegation level and what we would expect that
14 to change to with the new dele -- with the proposed
15 potential delegation levels.

16 Those are the two -- the two bits of Committee
17 direction I took.

18 CHAIRPERSON MILLER: That's all I remember.

19 Anybody else?

20 No, I think we got.

21 Okay. So we'll move now to 5F, public comment.
22 I have several requests for public comment. And so if you
23 want, you come on down. I'll start with Tim Behrens
24 followed by Sandy Emerson and Lynn Nitler. So Mr.
25 Behrens. Welcome and come on down. When you arrive and

1 the microphone is on, state your name for the record and
2 your time will appear up here, and you know the drill.

3 (Laughter)

4 MR. BEHRENS: Thank you, President Miller --
5 President Miller. I just promoted you -- Chairman Miller
6 and Board members -- and Committee members. Tim Behrens
7 from the California State Retirees.

8 So I wanted to first start off by congratulating
9 Nicole and filling the position that we have not been
10 patiently waiting to be filled. We appreciate you. And I
11 have gone from being an angry stakeholder when I came here
12 this morning to be an optimistic stakeholder. Really like
13 the interaction I've seen for the last few hours between
14 the Board and the staff.

15 So a couple of things. I'm glad that the Board
16 is going to increase more oversight. I think the Board
17 has always had the oversight, but I'm hearing now you're
18 going to use it. So I'm glad to hear that. I'd like to
19 see CalPERS looking closer at -- I can't read my own
20 writing -- administrative tasks. I share the Board
21 members' concerns regarding global investments. I agree
22 wholeheartedly with Board Member Middleton. I'm worried
23 about China and their relationship with Taiwan, amongst
24 everything else we heard today. It sounds like at least
25 six or eight other countries are in a recession and we

1 have investments all over, so I'd like to continue to hear
2 more information about that.

3 Finally, I remember the 2008 collapse that
4 CalPERS had, as did the whole United States. And I also
5 remember how quickly that the CalPERS Investment team was
6 able to recoil and get back to where they were within a
7 year. So I'm going to continue to be optimistic. I've
8 told a couple of the management staff team that you have
9 my backing. I think you can do it again, so let's try to
10 get it done.

11 I've heard more about private equity today than
12 I've heard in the last two years. Interesting. I think
13 the only comment I would make and a reminder, because I
14 think you're going to discuss in your November meeting
15 that the President has a pilot program going on to
16 privatize Medicare. And we have given the Board that
17 information. The California State Retirees has come out
18 publicly against that plan. We have President Biden's
19 phone number. We're calling him and we're calling our
20 local congressman urging them not to support that. So it
21 would be easy for CalPERS to fall into a trap, because
22 public -- or private equity has been offered 30 to 40
23 percent profits, if they will invest in this program. And
24 if they invest in this program, then I'm not sure I'm
25 going to get 30 or 40 percent of what I'm getting today as

1 good service in my Medicare.

2 Thank you very much. Have a good day.

3 CHAIRPERSON MILLER: Great. Thank you very much
4 for your comments. Is Sandy Emerson still in the house?

5 Nope, it looks like she left.

6 And Lynn Nitler?

7 Okay. I guess they've decided they didn't want
8 to stick around to make comments today, but I'm sure we'll
9 hear from them again at some point in the future, and they
10 will be welcome.

11 So I think hearing no objections, we will now
12 closeout our open session and adjourn into -- and recess
13 into closed session. And I think that's it. And we will
14 return to closeout in open session at the conclusion of
15 closed session, correct?

16 Yeah. Okay. So we are now moving into closed
17 session for items 1 to 7 from the closed session agenda
18 and the open session Investment Committee meeting will
19 reconvene following that closed session.

20 So thank you.

21 (Off record: 3:16 p.m.)

22 (Thereupon the Investment Committee recessed
23 into closed session.)

24 (Thereupon the meeting reconvened
25 open session.)

1 (On record: 4:52 p.m.)

2 CHAIRPERSON MILLER: Okay. We're back in open
3 session and hearing no objections, we will be adjourned.

4 Any objections?

5 No.

6 We are adjourned.

7 (Thereupon, the California Public Employees'
8 Retirement System, Investment Committee
9 meeting open session adjourned at 4:52 p.m.)

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CERTIFICATE OF REPORTER

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 26th day of September, 2022.



JAMES F. PETERS, CSR
Certified Shorthand Reporter
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