

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

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM
FECKNER AUDITORIUM
LINCOLN PLAZA NORTH
400 P STREET
SACRAMENTO, CALIFORNIA

MONDAY, MARCH 13, 2023
10:08 A.M.

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

APPEARANCES

COMMITTEE MEMBERS:

David Miller, Chairperson

Theresa Taylor, Vice Chairperson

Malia Cohen, also represented by Lynn Paquin

Fiona Ma, represented by Frank Ruffino

Lisa Middleton

Eraina Ortega

Jose Luis Pacheco

Kevin Palkki

Ramón Rubalcava

Yvonne Walker

Mullissa Willette

Gail Willis, PhD

STAFF:

Marcie Frost, Chief Executive Officer

Michael Cohen, Interim Chief Operating Investment Officer

Matt Jacobs, General Counsel

Nicole Musicco, Chief Investment Officer

Dan Bienvenue, Deputy Chief Investment Officer

Sarah Corr, Managing Investment Director

Sterling Gunn, Managing Investment Director

Drew Hambly, Investment Director

APPEARANCES CONTINUED

STAFF:

Jean Hsu, Managing Investment Director

Simiso Nzima, Managing Investment Director

Lauren Rosborough Watt, Investment Director

ALSO PRESENT:

Bill Bracamontes, Wilshire Advisors

Randall Cheek, Retired Public Employees Association

Al Darby, Retired Public Employees Association

Rose Dean, Wilshire Advisors

Jason Opena Disterhoft, Majority Action

Christy Fields, Meketa Investment Group

Alyssa Giachino, Private Equity Stakeholder Project

Steve McCourt, Meketa Investment Group

James McRitchie

Michael Ring, Service Employees International Union

Sara Theiss, Fossil Free California

Tom Toth, Wilshire Advisors

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PROCEEDINGS

1
2 CHAIRPERSON MILLER: I call to order the
3 Investment Committee and I guess the first order of
4 business here will be to do roll for this Committee.

5 BOARD CLERK TRAN: David Miller?

6 CHAIRPERSON MILLER: Here.

7 BOARD CLERK TRAN: Lynn Paquin for Malia Cohen?

8 ACTING COMMITTEE MEMBER PAQUIN: Here.

9 BOARD CLERK TRAN: Frank Ruffino for Fiona Ma?

10 ACTING COMMITTEE MEMBER RUFFINO: Present.

11 BOARD CLERK TRAN: Lisa Middleton?

12 COMMITTEE MEMBER MIDDLETON: Present.

13 BOARD CLERK TRAN: Eraina Ortega?

14 COMMITTEE MEMBER ORTEGA: Here.

15 BOARD CLERK TRAN: Jose Luis Pacheco?

16 COMMITTEE MEMBER PACHECO: Present.

17 BOARD CLERK TRAN: Kevin Palkki?

18 COMMITTEE MEMBER PALKKI: Good morning.

19 BOARD CLERK TRAN: Ramón Rubalcava?

20 COMMITTEE MEMBER RUBALCAVA: Present.

21 BOARD CLERK TRAN: Theresa Taylor?

22 COMMITTEE MEMBER TAYLOR: Here.

23 BOARD CLERK TRAN: Yvonne Walker?

24 COMMITTEE MEMBER WALKER: Here.

25 BOARD CLERK TRAN: Mullissa Willette?

1 COMMITTEE MEMBER WILLETTE: Here.

2 BOARD CLERK TRAN: And Dr. Gail Willis?

3 CHAIRPERSON MILLER: Okay. The next order of
4 business is the election of the Chair and Vice Chair of
5 the Investment Committee. For this, I'll hand the gavel
6 over to Mullissa Willette, figuratively.

7 COMMITTEE MEMBER WILLETTE: Thank you so much.

8 Oh, it was for a second.

9 Thank you so much. So I will now take
10 nominations for Chair of the Investment Committee.

11 I will recognize Jose Luis Pacheco.

12 CHAIRPERSON MILLER: Let me get you there.

13 COMMITTEE MEMBER PACHECO: Yes. Thank you.
14 Thank you very much, Mullissa, and thank you.

15 I would like to nominate Mr. David Miller for
16 Chair of the Investment Committee.

17 COMMITTEE MEMBER WILLETTE: Thank you, Mr.
18 Pacheco.

19 Is there a second to the nomination?

20 COMMITTEE MEMBER MIDDLETON: Second.

21 COMMITTEE MEMBER WILLETTE: Thank you, Lisa
22 Middleton.

23 There -- nomination has been made and seconded
24 for David Miller for Chair Of the Investment Committee.

25 Are there any other nominations?

1 Okay. Are there any other nominations?

2 And final call for any other nominations?

3 So I have a motion to approve David Miller as
4 Chair of the Investment Committee. Can we please do a
5 roll call vote?

6 BOARD CLERK TRAN: Okay. David Miller?

7 CHAIRPERSON MILLER: Aye.

8 BOARD CLERK TRAN: Lynn Paquin for Malia Cohen?

9 ACTING COMMITTEE MEMBER PAQUIN: Aye.

10 BOARD CLERK TRAN: Frank Ruffino for Fiona Ma?

11 ACTING COMMITTEE MEMBER RUFFINO: Aye.

12 BOARD CLERK TRAN: Lisa Middleton?

13 COMMITTEE MEMBER MIDDLETON: Aye.

14 GRAND JURY FOREMAN: Eraina Ortega?

15 COMMITTEE MEMBER ORTEGA: Aye.

16 BOARD CLERK TRAN: Jose Luis Pacheco?

17 COMMITTEE MEMBER PACHECO: Aye.

18 BOARD CLERK TRAN: Kevin Palkki?

19 COMMITTEE MEMBER PALKKI: Aye.

20 BOARD CLERK TRAN: Ramón Rubalcava?

21 COMMITTEE MEMBER RUBALCAVA: Aye.

22 BOARD CLERK TRAN: Theresa Taylor?

23 COMMITTEE MEMBER TAYLOR: Aye.

24 BOARD CLERK TRAN: Yvonne Walker?

25 BOARD MEMBER WALKER: Aye.

1 BOARD CLERK TRAN: And Mullissa Willette?

2 COMMITTEE MEMBER WILLETTE: Aye.

3 So the motion does pass. So congratulations. I
4 will now pass it over to Chair Miller.

5 CHAIRPERSON MILLER: Okay. Thank you. I
6 appreciate the support.

7 And next is the election of the Vice Chair of the
8 Investment Committee. And I will entertain nominations
9 for Vice Chair. And I will make the motion to nominate
10 Theresa Taylor as Vice Chair of the Investment Committee.

11 Are there any further nominations?

12 Any further nominations?

13 Any further nominations?

14 So I'll put that forth as a motion. Do I have a
15 second?

16 COMMITTEE MEMBER RUBALCAVA: I'll second.

17 CHAIRPERSON MILLER: Oh, Ramón Rubalcava --
18 Director Rubalcava seconds.

19 Okay. Any -- I will call for the question via
20 roll call.

21 BOARD CLERK TRAN: David Miller?

22 CHAIRPERSON MILLER: Aye.

23 BOARD CLERK TRAN: Lynn Paquin for Malia Cohen?

24 ACTING COMMITTEE MEMBER PAQUIN: Aye.

25 BOARD CLERK TRAN: Frank Ruffino for Fiona Ma?

1 ACTING COMMITTEE MEMBER RUFFINO: Aye.

2 BOARD CLERK TRAN: Lisa Middleton?

3 COMMITTEE MEMBER MIDDLETON: Aye.

4 BOARD CLERK TRAN: Eraina Ortega?

5 COMMITTEE MEMBER ORTEGA: Aye.

6 BOARD CLERK TRAN: Jose Luis Pacheco?

7 COMMITTEE MEMBER PACHECO: Aye.

8 BOARD CLERK TRAN: Kevin Palkki?

9 COMMITTEE MEMBER PALKKI: Aye.

10 BOARD CLERK TRAN: Ramon Rubalcava?

11 COMMITTEE MEMBER RUBALCAVA: Aye.

12 BOARD CLERK TRAN: Theresa Taylor?

13 COMMITTEE MEMBER TAYLOR: Aye.

14 BOARD CLERK TRAN: Yvonne Walker?

15 BOARD MEMBER WALKER: Aye.

16 BOARD CLERK TRAN: Mullissa Willette?

17 COMMITTEE MEMBER WILLETTE: Aye.

18 BOARD CLERK TRAN: Dr. Gail Willis?

19 COMMITTEE MEMBER WILLIS: Aye.

20 Did you hear me?

21 CHAIRPERSON MILLER: Yes.

22 COMMITTEE MEMBER WILLIS: Oh.

23 CHAIRPERSON MILLER: Okay. So I think we're
24 going to be in recess for about five minutes. We change
25 -- what, two minutes? Change out the agenda and shift

1 things around a little bit here, so bear with us, please.

2 Okay. Okay. It looks like our next order of
3 business is our Executive Report from our Chief Investment
4 Officer Nicole Musicco.

5 CHIEF INVESTMENT OFFICER MUSICCO: Great. Thank
6 you. Thank you and congratulations, Chair Miller and Vice
7 Chair Theresa Taylor. We're all looking very forward to
8 continuing to do good work with all of you going forward.

9 So we've a -- we have a full agenda today, but
10 we've also had a big weekend this weekend all of us
11 watching as things progressed with Silicon Valley Bank and
12 the implications in the market, the response of the Fed,
13 et cetera. And so I thought I'd just start, you know,
14 just in the spirit of the fact that we've -- we often
15 refer to our innovation and resiliency as being core
16 tenets to our business. I think that was in full playout
17 this weekend. And I just wanted to give the Board, you
18 know, some perspective or some insight into our kitchen.
19 And we'll use that phrase today as well as we move to try
20 to being a lot more transparent about our operations and
21 more transparent on what's top of mind for us.

22 And I think this weekend was a good example of --
23 that I can share with the Board to give you confidence
24 that both resiliency and innovation continue to be, you
25 know, core themes -- core tenets of what -- of how we

1 execute our strategy.

2 Through the resiliency front, you know, this
3 weekend as we were watching events unfold, the team was
4 extremely responsive and was able to, in very short order,
5 get a good glimpse into and a good handle on any exposures
6 that we may have had to Silicon Valley Bank, to Signature
7 Bank, to regional banks in general. So I was really
8 please. It was my first time where I've had to kind of
9 have in the middle of the evening Friday kind of a reach
10 out to my team. And I was really -- I just want to
11 commend the team. They've been exceptional all weekend.
12 Everyone was really all hands-on deck. So I just thought
13 it was important to share that with the Board, because you
14 don't often get to see the behind the scenes or us in
15 action where -- when we're in the middle of tumultuous
16 times, if you will.

17 And so that's really on resiliency front and I --
18 we can get into the -- I think, you know, high level --
19 and I know Marcie was able to send out a quick note. But
20 as far as exposures are concerned, we have about 67
21 million of exposure to Silicon Valley Bank and around 7 --
22 11 million exposure to Signature Bank. And so those would
23 be assets at risk, likely at a loss. But in the grand
24 scheme of things, obviously a very small percentage of our
25 overall portfolio. But I think more importantly, it was

1 the speed with which the team was able to get back to me
2 on what those exposures were. It was the speed with which
3 our liquidity framework and the folks that are involved in
4 really managing our own liquidity were able to come back
5 and give me reassurances that -- you know, many lessons
6 learned since the global financial crisis and how we
7 manage our own liquidity, the approach that we use to
8 track, and monitor, and report.

9 And again, just as a shout-out to the team, I was
10 able to get a very detailed review even in the wee hours
11 of late last night as we were continuing just to watch
12 things unfold in the market and the implications. So
13 shout-out to the team, but also more importantly just to
14 give the Board reassurance that we're on top of things.

15 In the spirit of innovation, that was an
16 interesting and proud moment for us as well this weekend,
17 because we had a number of inbound calls as well as a
18 number of, you know, reach-outs that we proactively did
19 just in response to what we are observing in the market.
20 And I think the word is finally getting out that we can be
21 a very strategic partner. We can be thoughtful. We can
22 be agile in providing solutions for balance sheet
23 restructurings or just in general be patient long-term
24 capital. We weren't called upon at this moment, and in
25 closed we can share more details with you with some things

1 that we're thinking about.

2 There's nothing right now in the works, but my
3 phone continues to buzz and I think that it's really
4 exciting to see that our pronouncement to the world that
5 we're open for business and open to be innovative, the
6 message is out. And so again, just wanted to share that
7 with the Board.

8 And really in the spirit of that, if I move into
9 where our agenda is today, we a have full agenda, but
10 again, we're trying to -- we've committed to you to be a
11 lot more involved and engaged with you on what's going on.
12 And as I said, I use the term in our kitchen, and so
13 you'll see that play out when we have Sterling Gunn later
14 today presenting on portfolio construction. We have Sarah
15 Corr reviewing a presentation on our global real estate
16 sustainability. I believe that was a request that came
17 from the Board in our September 22 meeting, and so we'll
18 give you some deeper insights there.

19 And last but not least, you'll also see our
20 investment -- our Managing Investment Director of Global
21 Equity provide an update on our corporate governance with
22 Drew Hambly who is one of our newer hires to the team.

23 As well, you're going to hear from our investment
24 consultants and staff on our general market conditions, as
25 well as performance for calendar year to 2022, which again

1 after the wild weekend we've had, you know, it feels like
2 that's very far behind us. But I think it's important for
3 us to walk everyone through what activities went on
4 through the -- from -- through the lens of our policy
5 benchmark as well as through our own investment programs.

6 And so that's the spirit of the trust level
7 review that you'll have today. And you'll notice we took
8 a bit of a different format. And I am hoping to get some
9 direct feedback on the format we've used. I think
10 historically, we've presented a number of slides, but from
11 my perspective and a new consumer of those old reports, it
12 jumped out to me that without the context around it,
13 without the story around it, it's really hard. It's not
14 as useful of a tool, if you will, for you to use as Board
15 members when you're reading it yourself or walking about
16 with your -- with our stakeholders.

17 And so we're hoping this story-telling approach
18 and the format that we've used will allow for more
19 questions and a bit more of an education. And so stay
20 tuned for that.

21 And at first, but -- but first before we carry on
22 and I hand over the mic, I do want to share with you our
23 excitement around the -- and our announcement today, which
24 is we will be bringing on as our Deputy Chief Investment
25 Officer, Daniel Booth, who will be joining us in April,

1 which we're looking very forward to. He has 25 years of
2 investment experience from the United -- and he comes to
3 us from the United Kingdom Infrastructure Bank in Leeds,
4 where he has served as a senior advisor, helping them
5 really set up their entire investment program and equity
6 platforms. And so we're really delighted to bring on, you
7 know, another strategic thinker to add to the ranks here
8 as we really make a big push into private market investing
9 overall. So I'm really delighted to make that
10 announcement.

11 And equally delighted to welcome Peter Cashion
12 who joins us in a couple weeks, but he is in the audience.
13 There he is. And we're very excited to have Peter join us
14 from the IFC where he was the Global Head of Climate
15 Finance and the CIO of the Financial Institutions group
16 there. As we said, if we think about private markets as
17 being a big area of push for active investing, our
18 Sustainable Investing Strategy is one that is top of mind
19 for us through the advocacy lens, through the risk lens,
20 as well as through the investing lens. And Peter brings a
21 tremendous depth and breadth of experience in all of those
22 areas. So we're just super excited and I can't wait for
23 him to get here, but he was kind enough to join us today,
24 so he could be introduced to the Board. So thank you,
25 Peter, for joining us.

1 So with that, I believe first order of business
2 is to turn it back over to the Chair and then we'll get
3 started on the agenda items.

4 Thank you.

5 CHAIRPERSON MILLER: Okay. There we go.

6 Okay. Our next agenda item is the action consent
7 items. I don't have anything that anyone has asked me to
8 pull, so I will ask what's the Committee's pleasure on
9 Item 4.

10 COMMITTEE MEMBER PACHECO: I'll move it.

11 CHAIRPERSON MILLER: Moved by -- moved approval
12 by Director Pacheco.

13 Do I have a second?

14 COMMITTEE MEMBER PALKKI: I'll second.

15 CHAIRPERSON MILLER: Seconded by Director Palkki.
16 Any discussion?

17 I'll call for the question by roll call.

18 BOARD CLERK TRAN: Theresa Taylor?

19 VICE CHAIRPERSON TAYLOR: Aye.

20 BOARD CLERK TRAN: Lynn Paquin for Malia Cohen?

21 ACTING COMMITTEE MEMBER PAQUIN: Aye.

22 BOARD CLERK TRAN: Frank Ruffino for Fiona Ma?

23 ACTING COMMITTEE MEMBER RUFFINO: Aye.

24 BOARD CLERK TRAN: Lisa Middleton?

25 COMMITTEE MEMBER MIDDLETON: Aye.

1 BOARD CLERK TRAN: Eraina Ortega?

2 COMMITTEE MEMBER ORTEGA: Aye.

3 BOARD CLERK TRAN: Jose Luis Pacheco?

4 COMMITTEE MEMBER PACHECO: Aye.

5 BOARD CLERK TRAN: Kevin Palkki?

6 COMMITTEE MEMBER PALKKI: Aye.

7 BOARD CLERK TRAN: Ramón Rubalcava?

8 COMMITTEE MEMBER RUBALCAVA: Aye.

9 BOARD CLERK TRAN: Yvonne Walker?

10 BOARD MEMBER WALKER: Aye.

11 BOARD CLERK TRAN: Mullissa Willette?

12 COMMITTEE MEMBER WILLETTE: Aye.

13 BOARD CLERK TRAN: Dr. Gail Willis?

14 COMMITTEE MEMBER WILLIS: Aye.

15 CHAIRPERSON MILLER: Okay. The ayes have it.

16 The motion carries.

17 Moving on to information consent items, number 5
18 on our agenda. Again, I have no requests to pull
19 anything. And so what's the pleasure of the Committee?

20 Do I have a motion? Oh, it's an information. I
21 don't need a motion.

22 Okay. Moving right along on to information
23 agenda items starting with our global real estate
24 sustainability benchmark. And for that, I'll call on
25 Sarah Corr of the team.

1 CHIEF INVESTMENT OFFICER MUSICCO: Thank you,
2 Sarah.

3 (Thereupon a slide presentation).

4 MANAGING INVESTMENT DIRECTOR CORR: Good morning.
5 Sarah Corr from the Investment Office. I'm here to
6 present the GRESB overview that was requested by this
7 Committee at the September Board meeting.

8 --o0o--

9 MANAGING INVESTMENT DIRECTOR CORR: So GRESB was
10 founded in 2009 and measures ESG performance based on a
11 set of criteria, including environmental factors such as
12 energy efficiency, waste management, and carbon emission
13 social factors such as worker safety, diversity and
14 community engagement, and governance factors, such as
15 structure, ethics and transparency.

16 In 2016, GRESB expanded past real estate to
17 include infrastructure. GRESB has become the industry
18 standard for reporting on ESG considerations. For the
19 2022 reporting period, there were greater than 1800
20 participants up from just under 900 in 2018. There's
21 growing demand for more consistent and transparent ESG
22 reporting standards from companies, including the proposed
23 SEC Climate Disclosure Rule, which CalPERS is supportive
24 of.

25 CalPERS also engages in other activities relating

1 to standardizing reporting for ESG considerations in real
2 estate.

3 --o0o--

4 MANAGING INVESTMENT DIRECTOR CORR: On this
5 slide, you can see the components of the GRESB assessment.
6 When submitting to GRESB, managers are required to provide
7 supporting documentation in responding to various
8 questions within management and performance of the survey.

9 The management component currently has a 30
10 percent weight and assesses things like strategy,
11 leadership, process, and risk management. While the
12 performance component has a 70 percent weight and looks at
13 asset level ESG data, energy consumption, greenhouse gas
14 emissions, tenant and community engagement. There are
15 approximately 80 questions in the survey with each
16 question having at least one subcomponent to the question.

17 --o0o--

18 MANAGING INVESTMENT DIRECTOR CORR: In total,
19 almost 90 percent of the real assets NAV participates in
20 the GRESB survey, with a higher percentage in real -- in
21 the real estate portfolio than infrastructure. Keep in
22 mind, where we have greater governance, such as our
23 separate accounts, we have great control on whether or not
24 a manager submits to the survey.

25 There's a greater portion of separate accounts in

1 real estate than infrastructure. The GRESB real estate
2 assessment is more seasoned than infrastructure and
3 therefore has a higher participation rate across the
4 industry.

5 --o0o--

6 MANAGING INVESTMENT DIRECTOR CORR: We generally
7 view GRESB as a consistent framework to engage our
8 managers on ESG topics and better understand what they
9 could be doing to improve. While there is less emphasis
10 in the scores, CalPERS managers continue to achieve scores
11 above the GRESB average with CalPERS managers having a
12 score of 80 relative to the survey benchmark average of
13 74.

14 The benchmark provides staff with information
15 about what topics to engage our managers with and how we
16 can partner with them to prioritize economically viable,
17 sustainable projects.

18 --o0o--

19 MANAGING INVESTMENT DIRECTOR CORR: As previously
20 mentioned, GRESB is just one aspect of ES -- our ESG
21 integration efforts and for the time being, despite some
22 limitations, it is providing a common framework for staff
23 to measure ESG performance. This is a continually
24 evolving space with growing number of regulations
25 requiring disclosure as well.

1 CalPERS will continue to monitor and support
2 standardization of ESG reporting in general, increasing
3 transparency, and better providing an update to
4 understanding the ESG risks within our portfolio.

5 --o0o--

6 MANAGING INVESTMENT DIRECTOR CORR: And that
7 concludes my presentation. Happy to take any questions.

8 CHAIRPERSON MILLER: Yes, I'll recognize Director
9 Rubalcava.

10 COMMITTEE MEMBER RUBALCAVA: Thank you, Sarah.
11 Appreciate the stewardship you have over this area. I
12 think it's very important that CalPERS continues to be --
13 provide leadership in this area of real estate asset and
14 ES -- ESG incorporation.

15 In the last meeting, we had asked that the
16 Responsible Contractor Policy be updated. And I was
17 wondering where we are in that process?

18 MANAGING INVESTMENT DIRECTOR CORR: Yeah, that's
19 on the calendar for review during this -- probably during
20 next fiscal year. We'll engage with stakeholders and
21 review the contractor -- or the -- I'm sorry, the policy.

22 COMMITTEE MEMBER RUBALCAVA: Thank you, because,
23 you know, workforce is very important. And I just want
24 to --

25 MANAGING INVESTMENT DIRECTOR CORR: Yep.

1 COMMITTEE MEMBER RUBALCAVA: -- help capital --
2 workforce capital. So thank you.

3 CHAIRPERSON MILLER: Okay. I've got Frank
4 Ruffino for Fiona Ma.

5 ACTING COMMITTEE MEMBER RUFFINO: Thank you, Mr.
6 Chair. And thank you, Sarah, for the presentation. Just
7 real quick, if you can tell us what role, if any, does
8 CalPERS have in providing input to the Global Real Estate
9 Sustainability Benchmark and its survey?

10 MANAGING INVESTMENT DIRECTOR CORR: Yeah. So
11 CalPERS used to be on the Advisory Council for GRESB and
12 the survey. We stepped off that council in 2020, but we
13 still do provide input and respond to surveys that they
14 put out asking for guidance on areas to make improvements.

15 ACTING COMMITTEE MEMBER RUFFINO: Do we plan to
16 rejoin that as a member at all or --

17 MANAGING INVESTMENT DIRECTOR CORR: They were --
18 they were purchased in 2020, which is why we came off of
19 the council. And their structure now is such that we
20 don't -- we don't participate, but we just respond to
21 surveys about questions we have about the survey results.

22 ACTING COMMITTEE MEMBER RUFFINO: Got it. Mr.
23 Chair, if I could, one other quick question. Follow up to
24 Mr. Rubalcava's question regarding the review and possible
25 modification of the responsible contractor. I think if I

1 understood you correctly, you said that's been scheduled
2 for review next fiscal year?

3 MANAGING INVESTMENT DIRECTOR CORR: Fiscal year,
4 yes.

5 ACTING COMMITTEE MEMBER RUFFINO: So would that
6 be -- I always get confused calendar year, fiscal year, so
7 after July?

8 MANAGING INVESTMENT DIRECTOR CORR: Correct.

9 ACTING COMMITTEE MEMBER RUFFINO: All right,
10 excellent. Thank you. Thank you, Mr. Chair.

11 CHAIRPERSON MILLER: Okay. Next, Director
12 Willette.

13 Oh, had you.

14 Let's try again.

15 There you go.

16 COMMITTEE MEMBER WILLETTE: Perfect. Thank you
17 so much. I really appreciate this report and for the
18 follow-up work from the information requested earlier. I
19 think our participation in GRESB and our collaboration to
20 ensure the standards across real assets is really
21 commendable. I do want to highlight that I think a future
22 area of work I'd really like to see more robust
23 incorporation of the workforce risk issues through the
24 GRESB processes. I think given our history of leadership
25 in responsible contracting, looking forward to hearing

1 more about that, our collaboration with stakeholders
2 including managers and worker representatives, I'd
3 appreciate that we encourage GRESB to work with those
4 stakeholders to incorporate responsible contracting and
5 other workforce related items into those processes. And I
6 think we'd just be really missing an opportunity on the
7 workforce front. And if we don't -- if we don't do that
8 -- if we don't do that, I think the metrics are really
9 important and any underreporting or under-measuring would
10 be a disservice.

11 Thank you.

12 CHAIRPERSON MILLER: Okay. Thank you.

13 Next, I have Director Pacheco.

14 COMMITTEE MEMBER PACHECO: Thank you. Thank you,
15 Chairman Miller and thank you Nicole for this, and Sarah.

16 My question is regarding the GRESB survey. What
17 actions, if any, are you taking to resolve the expressed
18 challenges highlighted in the -- in this -- in the
19 challenges and merit slide?

20 MANAGING INVESTMENT DIRECTOR CORR: So we're
21 working to try and get more standardization.

22 COMMITTEE MEMBER PACHECO: Um-hmm.

23 MANAGING INVESTMENT DIRECTOR CORR: GRESB has a
24 five-year plan that they've actually put in place, where
25 they are also trying to get more definitions and guidance

1 on how to respond to some of the questions. And as
2 infrastructure becomes more -- has more time, it's
3 becoming easier for the managers to evaluate it. Part of
4 the problem was they kept changing the survey questions
5 every year. And now that they've gotten to a place where
6 they're more consistent, it's easier for the managers to
7 participate.

8 COMMITTEE MEMBER PACHECO: Thank you.

9 CHAIRPERSON MILLER: Okay. I have Director
10 Middleton.

11 COMMITTEE MEMBER MIDDLETON: Sarah, thank you.
12 In the last few years, we've seen a dramatic change in the
13 nature of where people work and how they approach work.
14 As you start to plan for a long-term strategy in terms of
15 real estate investments, how do you see the change in the
16 nature of how people work and where they work affecting
17 our long-term investment strategy?

18 MANAGING INVESTMENT DIRECTOR CORR: That's a
19 challenging question.

20 (Laughter).

21 MANAGING INVESTMENT DIRECTOR CORR: We're
22 definitely seeing it impact the office sector. We're
23 internally having debates about whether or not office
24 becomes a long-term hold relative to more of a tactical
25 play. Within our office portfolio, we are seeing fairly

1 high occupancy rates, and -- but there are still
2 challenges in getting people to come back to the office.
3 I won't say come back to work, because people are working,
4 they're just not working in the office.

5 So it is making us think about how we approach
6 office going forward. And there could be some -- that
7 could result in some knock-on effects on housing and what
8 metro areas are more attractive from a multi-family
9 perspective.

10 COMMITTEE MEMBER MIDDLETON: Thank you.

11 And I know it was a challenging question and not
12 one that I've heard anybody come up with the great answer
13 to, but that's certainly a start.

14 What I would comment though is at this point,
15 it's becoming more predictable that we have, in fact, had
16 not a temporary but a permanent change in how people
17 approach work. And it strikes me that we should start to
18 be developing a strategy around what does that -- what are
19 those permanent changes going to be and how do we respond
20 to the market long term.

21 CHIEF INVESTMENT OFFICER MUSICCO: I would just
22 add, you're absolutely right. I think it's top of mind
23 for us. What has not changed is the importance of us
24 understanding that diversification is really important.
25 What's not changed is the importance of being in the right

1 metro areas and being opportunistic when we see that we
2 are engaged with our -- or working with strategic partners
3 that have an angle or an edge that we should be really
4 engaging with them on and being agile.

5 And so as part of our overall real assets review,
6 which as you know also includes our Infrastructure
7 Program, this is all top of mind for us as we think about
8 what is the next push into, whether it's new verticals,
9 new geographies, or new strategic partners.

10 COMMITTEE MEMBER MIDDLETON: All right. Thank
11 you very much.

12 CHAIRPERSON MILLER: Okay. Next, I have
13 President Taylor.

14 VICE CHAIRPERSON TAYLOR: Thank you, Director
15 Miller. I just really appreciate this report. I
16 understand that this can be challenging every time we
17 adopt new reporting standards, especially for
18 infrastructure.

19 The only question I had for you, Sarah, was -- I
20 think it was Director Rubalcava asked you about our RCP
21 update report. And you said next year, but it seemed
22 vague. I kind of wanted to drill down on that a little
23 bit. When -- so we are working on the RCP update, yes?

24 MANAGING INVESTMENT DIRECTOR CORR: We'll be
25 reviewing the policy next fiscal year, so after July 1st.

1 VICE CHAIRPERSON TAYLOR: After July 1st. Okay.
2 So -- and are you working with GRESB or other stakeholders
3 to adopt the -- or change the RCP or is it just in-house
4 or does the Board have any input into that?

5 MANAGING INVESTMENT DIRECTOR CORR: We'll engage
6 with the Board consultant on this --

7 VICE CHAIRPERSON TAYLOR: Um-hmm.

8 MANAGING INVESTMENT DIRECTOR CORR: -- and the
9 Board as well.

10 VICE CHAIRPERSON TAYLOR: Okay. Great. That' --
11 I just didn't hear that, so I do appreciate that. Thank
12 you, Sarah.

13 CHAIRPERSON MILLER: Okay. I'm not seeing any
14 other questions or requests to speak. Thank you for your
15 presentation. As always, very comprehensive and
16 enlightening. Thank you.

17 And so that moves us to 6B, proxy voting
18 corporation engagement update.

19 CHIEF INVESTMENT OFFICER MUSICCO: Great. Thank
20 you. So today, we will be joined by Drew Hambly. As I
21 mentioned, he's our Investment Director for Stewardship
22 and just recently joined us. He'll be giving us an update
23 on proxy voting and our corporate engagement activities.

24 We present this item annually and just prior to
25 proxy season to give the Investment Committee a preview of

1 the sustainability topics that we're going to focus on for
2 the 2023 proxy season and to share outcomes as well from
3 the '22 proxy season.

4 Drew joined us at the end of October, so this is
5 his first presentation to the Investment Committee, but I
6 think you'll see that he's taken this challenge on, this
7 very important aspect of our business with great energy.
8 So thank you, Drew for joining us.

9 (Thereupon a slide presentation).

10 INVESTMENT DIRECTOR HAMBLY: Great. Good
11 morning. Drew Hambly, Investment Office.

12 Today, I'm going to try to accomplish two things,
13 take you -- the Board through a recap of the 2020 2022
14 proxy season and engagement efforts and then we'll look
15 ahead in our crystal ball to what we expect to see in the
16 upcoming proxy season, which we anticipate starting in
17 about two weeks for 2023.

18 --o0o--

19 INVESTMENT DIRECTOR HAMBLY: Oh, there we go.
20 Okay.

21 So we voted nearly 9,000 meetings in 2022. We
22 expect that will be down. The overall size of the
23 portfolio has contracted a bit, more akin to about 6,000
24 companies. So we'll see little bit smaller numbers going
25 into 2023, but in 2022, 8,700 proxies voted.

1 The key governance issue, which has been key to
2 CalPERS for a long time now, was executive compensation.
3 When we're voting on executive compensation, we try to
4 accomplish two things, opine on the package that's being
5 delivered, and then when we don't see alignment with pay
6 for performance, we also hold board of directors on the
7 compensation committee accountable.

8 We voted against 49 percent of say on pays in the
9 U.S. in 2022. And with that, when we do vote against, we
10 also vote against the compensation committee members.
11 You'll notice a slight dip from 2021, where we voted
12 against 55 percent. I would attribute some of that to the
13 positive engagement we have with companies. After we have
14 voted against, we'll have an opportunity to speak with
15 them post proxy season, articulate some changes that we'd
16 like to see them make. So I think there's some success
17 there in engagement efforts last year leading into 2022,
18 where we voted slightly against, but still a high
19 percentage rate against for a U.S. based owner or manager.

20 On director diversity and accountability, one of
21 the things we try to look for is diversity and good
22 succession planning in the Board room. CalPERS has had a
23 long history of engaging companies on adding women, people
24 of color to the Board. We did votes against directors at
25 173, where our engagement efforts did not prove fruitful,

1 but we have observed in the marketplace a nice uptick over
2 the last couple years, certainly not done in the number of
3 women on, for example, S&P 500 boards has now crossed the
4 30 percent threshold, where that was below 20 percent just
5 five years ago. So I think CalPERS and others have made
6 some nice efforts in corporate diversity in the Board room

7 In terms of climate risk oversight, as you all
8 know, we are founding members of CA 100. We lead on 22
9 engagements. CA 100+ has about 165 companies that we're
10 tracking that are high emitters. So in that we have a
11 framework where we talk to companies, look for certain
12 things in terms of disclosure and Board oversight. Where
13 we don't observe those at these companies, we will vote
14 against the Board members that are directly responsible,
15 whichever committee should have oversight of climate risk.

16 And then on -- enhanced shareholder rights,
17 CalPERS has been a long proponent of vehicles like proxy
18 access, majority voting. Last year in 20 -- I'm sorry, in
19 2022, we filed 50 resolutions for companies to adopt proxy
20 access. We got 48 of the 50 to do so. Two of the
21 companies had a merger before the meeting, so were merged
22 away.

23 We're targeting another 50 companies upcoming in
24 this proxy season. To date, we've had over 70 percent
25 response rate from those companies choosing to adopt,

1 allowing us to withdraw those proposals.

2 Let me stop there for a second and then I can go
3 into our view for the 2023 season.

4 CHAIRPERSON MILLER: Okay. I have Director
5 Pacheco.

6 COMMITTEE MEMBER PACHECO: Yes. Thank you.
7 Thank you, Drew, and first of all, welcome.

8 INVESTMENT DIRECTOR HAMBLY: Thank you.

9 COMMITTEE MEMBER PACHECO: We really appreciate
10 your input and so forth. So my question is regarding
11 proxy season --

12 INVESTMENT DIRECTOR HAMBLY: Um-hmm.

13 COMMITTEE MEMBER PACHECO: -- coming up in two
14 weeks, a lot of activity has been going on in that space
15 from climate change, human capital, and governance. And
16 recently in the news, I've read that, you know, an
17 administrative law judge found that Starbucks, you know,
18 has committed numerous United States labor law violations.
19 And you know, these labor law violations, you know, I feel
20 have the potential to create reputational, legal, and
21 operational risk for Starbucks, and may actually impact
22 the long-term viability or value to our fund.

23 INVESTMENT DIRECTOR HAMBLY: Um-hmm.

24 COMMITTEE MEMBER PACHECO: You know, as a
25 fiduciaries of the system here, you know, we have a

1 responsibility to ask if we are doing anything at all to
2 mitigate these risks for the long-term stability of, you
3 know, this -- of -- for the long-term stability of this --
4 of this company and for our value. So if you can
5 elaborate on that, it would be great.

6 INVESTMENT DIRECTOR HAMBLY: Yes, I'd be happy
7 to. So in this particular example, Starbucks, they have a
8 meeting coming up on March 23rd. They have a shareholder
9 resolution, Shareholder Resolution number 8, that seeks to
10 address the company to provide a report to shareholders on
11 their commitment to freedom of association is roughly the
12 way the proposal is worded.

13 In addition to that vote, which is next week --
14 we have not voted yet, but we also have an upcoming
15 engagement with the company this week to articulate our
16 views that freedom of association is important to CalPERS.
17 And while we haven't voted yet, but we will be
18 articulating those views to the company when we speak to
19 them this week and then we'll vote accordingly next week,
20 probably by next Monday or Tuesday.

21 COMMITTEE MEMBER PACHECO: Will we know the
22 results of the vote afterwards or how does that work?

23 INVESTMENT DIRECTOR HAMBLY: Yeah, so this is how
24 it works in the U.S. Within four days of a company
25 shareholder meeting, they have to file an 8-K with the

1 results of the meeting, so we'll know four business days
2 after the meeting. I think the meeting is the 23rd, which
3 would be next maybe Tuesday. So probably by next Friday
4 or the following Monday we'll have the results of that
5 vote.

6 COMMITTEE MEMBER PACHECO: Okay. Thank you very
7 much for that information.

8 INVESTMENT DIRECTOR HAMBLBY: You're welcome.

9 CHAIRPERSON MILLER: Next I have Lynn Paquin.

10 ACTING COMMITTEE MEMBER PAQUIN: Thank you.
11 Thank you for the presentation this morning. I was
12 interested in the work to expand the focus list of Climate
13 Action 100. Just curious if CalPERS is going to be
14 partnering with any of the other investors involved with
15 Climate Action 100 on this expanded list or this an
16 internal approach?

17 INVESTMENT DIRECTOR HAMBLBY: Yeah. So right
18 now -- thank you for that. Right now, this is internal.
19 One of the things I did when I started is we looked at the
20 highest emitters in the portfolio -- in the equity
21 portfolio. And so the Climate Action 100, there's 165
22 names in that. And that makes up a good portion of that.
23 I believe nearly 80 to 85 percent of our emissions come
24 from about 350 equity companies in the portfolio. And so
25 what we did this year is -- or going into the 2023 season

1 is we're going to expand our review beyond the 165
2 companies to include these 350. And we have a checklist
3 of items that we look for in terms of disclosure and Board
4 oversight. If we don't observe that, that's where we use
5 our proxy vote to vote against Board members that should
6 be overseeing that.

7 And so that's our initial is internal. The CA
8 100 is moving into phase two of the project, so we've done
9 the first five years. And we're having ongoing
10 discussions with members of that group and it will be
11 second half of this year where phase two from CA 100 will
12 be announced. So those discussions are ongoing at the
13 moment.

14 ACTING COMMITTEE MEMBER PAQUIN: Thank you. And
15 do you expect there will be some overlap with your new
16 list with the CA 100?

17 INVESTMENT DIRECTOR HAMBLY: Yeah, so I'm not
18 sure if the CA 100 is going to expand their list, but we
19 will articulate what we're doing with companies in our
20 portfolio. You know, we'll see what kind of appetite and
21 how many engagements we think we -- that the entire group
22 can take on. But that said, we will be sharing with the
23 group, you know, our focus in expanding beyond the 165.

24 ACTING COMMITTEE MEMBER PAQUIN: Great. Thank
25 you.

1 INVESTMENT DIRECTOR HAMBLY: You're welcome.

2 CHAIRPERSON MILLER: Okay. Next, I have Dr. Gail
3 Willis.

4 COMMITTEE MEMBER WILLIS: Good morning. I have
5 an inquiry. In terms of the corporate board diversity and
6 accountability, where it specifies the 170 directors with
7 diversity engagements that result in constructive
8 outcomes. Can you please elaborate on this?

9 INVESTMENT DIRECTOR HAMBLY: Yes. Happy to. So
10 what we try to do is we'll run -- so we have data on
11 diversity. We have a lot of data on gender diversity in
12 the board room throughout the portfolio, a little less so
13 on non-white diversity. Although it's getting better. I
14 think you've heard before, reading some past transcripts
15 on that nature.

16 So we will ask companies to, you know, target
17 certain levels of diversity where we don't see it. And in
18 those cases, where we don't see any new board members
19 being added that we would consider diverse after that
20 initial discussion, we will then use our proxy vote to
21 vote against the members of the nomination committee at
22 that company to, you know, express that we don't see fast
23 enough movement in adopting more board diversity.

24 So in those discussions we had, we identified a
25 group of companies and it resulted in 173 directors over

1 some number of companies on the nomination committee where
2 we did vote against, because we were not seeing an uptick
3 quickly enough in additional board room diversity, both
4 gender and ethnic diversity.

5 COMMITTEE MEMBER WILLIS: Okay. Thank you very
6 much. I appreciate it.

7 INVESTMENT DIRECTOR HAMBLY: You're welcome.

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

10 COMMITTEE MEMBER ORTEGA: Thank you. I had a
11 question about the say-on-pay votes. You mentioned that
12 the no votes had gone down, but it looks like the total
13 votes cast is down pretty significantly too. I wondered
14 if you had any information about why that is.

15 INVESTMENT DIRECTOR HAMBLY: Yeah, that -- a
16 function of two things. So some companies only put the
17 vote up every three years, so sort of every three years
18 you'll get a spike in votes, and then second, the
19 contraction in the number of total companies in the
20 portfolio. I think those were the two primary drivers for
21 the total number of votes being less than the previous
22 year.

23 COMMITTEE MEMBER ORTEGA: Okay. It's pretty
24 significantly less over the whole 10-year period there
25 too, so...

1 INVESTMENT DIRECTOR HAMBLY: Yes. But the -- but
2 the percentage of votes against have been pretty steady.
3 We've been in a 45 to 55 range over the last few years.

4 MANAGING INVESTMENT DIRECTOR NZIMA: If I may
5 jump in. Simiso Nzima, staff. We reduced or narrowed our
6 benchmark up by about 50 percent, so that's really
7 translated to that contraction overall less as far as the
8 number of companies where we actually cast votes at.

9 COMMITTEE MEMBER ORTEGA: Okay. Thank you.

10 CHAIRPERSON MILLER: Okay. Director Rubalcava.

11 COMMITTEE MEMBER RUBALCAVA: Thank you, Mr.
12 Miller. Excellent present -- great presentation.

13 INVESTMENT DIRECTOR HAMBLY: Thank you.

14 COMMITTEE MEMBER RUBALCAVA: I think you're a
15 great asset to the team, because based on your responses.
16 So I was fortunate enough to attend last week my first
17 Council of Institutional Investors.

18 INVESTMENT DIRECTOR HAMBLY: Oh, I'm sorry I
19 missed you. I hope you attended my panel.

20 (Laughter).

21 COMMITTEE MEMBER RUBALCAVA: I think I missed it,
22 but I don't think I knew you yet, so I apologize. But a
23 lot of what your report has, I've learned, because I --
24 responding to me -- this -- and I was happy to hear that
25 you used the term freedom of association, because that's

1 one thing that was really clearly pointed out. Let me
2 just start back. I think the main takeaway is that it was
3 clearly pointed out how exercising your proxy voting is
4 the best expression -- one -- truest expression of your
5 fiduciary responsibility.

6 INVESTMENT DIRECTOR HAMBLY: Um-hmm.

7 COMMITTEE MEMBER RUBALCAVA: And I am very
8 pleased that CalPERS is taking that seriously, very
9 pleased. And you spoke to many of the issue that were
10 addressed, diversity, workforce, climate risk. And so
11 I -- Pacheco -- somebody raised CEO pay. On CEO pay,
12 there was a lot interesting discussion. I -- there was --
13 I have more respect for this trustee from -- I forget his
14 name -- from -- Frank was there -- from Marin County. I
15 forget his name, but he's spoken here before, but now I
16 think I understand the context a little better.

17 And on diversity, I actually was able to attend
18 the workshop by our own Marlene Timberlake D'Adamo. I
19 hope I pronounced it right. And so I'm very -- I welcome
20 this presentation and I look forward to us having a
21 leadership role in making sure that we vote our
22 principles, and publicize that, and be a leader in this
23 area. So thank you.

24 I did have a question -- well, two comments here,
25 one on workforce issues. I want to follow up Mr.

1 Pacheco's comment. He mentioned Starbucks. I'm glad I
2 heard -- I like the answer you gave, but I think it's very
3 important that this is with us each and every day and we
4 don't -- should not take it lightly. What's been in the
5 news is this fork -- Norfolk Southern train derailment.

6 INVESTMENT DIRECTOR HAMBLY: Um-hmm.

7 COMMITTEE MEMBER RUBALCAVA: One of the speakers
8 at the conference mentioned how this could have been a
9 result -- it's probably the result of some speed-up
10 guidelines that the railroad put in. And though -- that
11 shows an -- where there has to be -- all parties have to
12 be part of the discussion on any -- on the workplace, the
13 workers, the union, and management. We have to make sure
14 that any policy they have is for the betterment of
15 everybody, the community, the workforce. And we want, of
16 course, competitive and productive commerce out there, but
17 it has to be at the right balance between risk and return.
18 So we want to make sure that's happening.

19 On climate, I just want to understand a little
20 better how that works. And this is more internal, I
21 guess, because our scenarios, I mean, there's -- I read --
22 I -- my notes are not here, but I read some place - I'm
23 not sure if it's today's report or another report - that
24 our guidelines are based on State law and Paris Agreement,
25 what have you. Are we in line with that still? I mean,

1 are we -- is our portfolio trying to get there or is
2 there? If you could speak to that, please.

3 INVESTMENT DIRECTOR HAMBLY: Yeah, sure.

4 COMMITTEE MEMBER RUBALCAVA: I look for my notes
5 on that.

6 INVESTMENT DIRECTOR HAMBLY: Yeah. So overall,
7 the boundaries we're looking at is 1.5 degrees Celsius --

8 COMMITTEE MEMBER RUBALCAVA: Yes. Yeah.

9 INVESTMENT DIRECTOR HAMBLY: -- and then 2.0 to
10 keep our, you know, climate to a level that we're all
11 accustomed to. So most companies are not quite on that
12 path, but have made commitments to put themselves on that
13 path.

14 And so we -- we're hoping is to see a more rapid
15 adoption of climate-saving technologies that these
16 companies introduce, because most of them have made
17 commitments. I think in the deck in the appendix through
18 the CA 100, we've had adoption of nearly 90 percent of the
19 companies in there have made commitments. But now, they
20 have to act on those commitments. So part of our
21 engagement efforts is to follow the progress of these
22 companies on the commitments, the investments they're
23 making to reduce their energy use, to look at alternative
24 fuels beyond what they're using.

25 So we're not -- not that we're not trying to get

1 there, but every company that we're engaging with, you
2 know, we're asking to not only make the commitment, make
3 the disclosure, but then act upon and invest to reduce
4 their production of greenhouse gas.

5 COMMITTEE MEMBER RUBALCAVA: Thank you for your
6 response. And I found my notes here. It was from our
7 minutes of November, where it was James and Travis
8 reporting on our California Senate Bill 996 -- 964 report
9 and recommendations of the TC --

10 INVESTMENT DIRECTOR HAMBLY: TCFD, um-hmm.

11 COMMITTEE MEMBER RUBALCAVA: -- TCFD. And if --
12 I guess the term is climate-related financial risk of our
13 public's market portfolio including alignment with the
14 Paris Agreement and California common policy goals and
15 exposure of fund to long-term risk. So I want to make
16 sure that we're cognizant of that in pursuing policies
17 that really will show that we're there --

18 INVESTMENT DIRECTOR HAMBLY: Yeah, so TCFD --

19 COMMITTEE MEMBER RUBALCAVA: -- embracing that --

20 INVESTMENT DIRECTOR HAMBLY: Yeah. Yeah. So the
21 TCFD report just looks at what the, you know,
22 organization's portfolio looks like. And then my role and
23 my team's role is to really talk to companies and try to
24 get them to take the action. So James, and Travis, and
25 the team have written our report, so we're in line with

1 what we're supposed to do there. And then it's my team
2 that goes in to talk to the companies using our vote and
3 our engagement efforts to try to get the companies that we
4 do own to reduce their carbon footprint.

5 COMMITTEE MEMBER RUBALCAVA: Okay. I really --
6 thank you for the answer and I really want to make sure
7 that -- you mentioned, I think in your presentation,
8 something about -- I think I wrote it down -- about
9 there's been some success in engagement. I want to make
10 sure that we publicize those successes in engagement,
11 because we're facing, I think, a legitimate frustration --
12 where's my notes -- through SB 252. And I think it
13 reflects --

14 INVESTMENT DIRECTOR HAMBLY: Um-hmm.

15 COMMITTEE MEMBER RUBALCAVA: -- frustration,
16 because they don't see the success of engagement,
17 especially on climate. So we want to see the positive
18 engagement and show success, I guess, or else we're always
19 going to be saying are we doing our fiduciary duty --

20 INVESTMENT DIRECTOR HAMBLY: Um-hmm.

21 COMMITTEE MEMBER RUBALCAVA: -- by continuing to
22 engage or should we just divest. And so I think it's
23 important that we show our traction in these engagements.

24 INVESTMENT DIRECTOR HAMBLY: Yeah, so in the
25 presentation in the appendix, we have a Climate Action

1 +100 update. Seventy-five percent of companies in that
2 benchmark have now set a net zero target by 2050, 92
3 percent have some level of Board oversight up from 90
4 percent the prior year, and then 91 percent of companies
5 now are aligned with TCFD recommendations up from 90
6 percent. And so what we're trying to do in our program is
7 expand past this 165 companies to tackle the next group of
8 emitters and then work on these few companies left that
9 haven't quite met all of our criteria. And that is, you
10 know, public in today's presentation, which is available
11 for people to see.

12 COMMITTEE MEMBER RUBALCAVA: Thank you, because I
13 like this slide here I'm looking at. It's page 10 in the
14 appendix I think. But we want to make sure that
15 CalPERS -- I guess you stated here, CalPERS is playing a
16 leading role in strategy implementation on the Climate
17 Action 100.

18 So thank you very much.

19 INVESTMENT DIRECTOR HAMBLY: Thank you.

20 CHAIRPERSON MILLER: Okay.

21 CHIEF INVESTMENT OFFICER MUSICCO: I know we had
22 discussed in some of our Investment Committee update
23 sessions leading to the meeting that we could and should
24 do a better job at explaining to yourselves and to the
25 market where that real action is happening and when our

1 engagement is really making a difference. So we'll take
2 that away to figure out how to weave it into either our
3 monthly or quarterly update memos that we send around on
4 what our activities are, if we can be more thoughtful in
5 our ongoing presentations to give very specific examples
6 of how our engagement is making change.

7 COMMITTEE MEMBER RUBALCAVA: Thank you.

8 CHAIRPERSON MILLER: Okay. Director Willette.

9 COMMITTEE MEMBER WILLETTE: Thank you so much.

10 Welcome to CalPERS.

11 INVESTMENT DIRECTOR HAMBLY: Thank you.

12 COMMITTEE MEMBER WILLETTE: I don't know if I'm
13 the right one to say that, but I also just want to
14 appreciate the comments and questions from my fellow Board
15 members. It's really sparked a great conversation today.
16 I'm really encouraged -- just wanted to drill in on one of
17 the bullets here. I'm real encouraged by our 2022 success
18 engaging with companies, I think we were, since July 2017.
19 So thank you for that. Thank you. Congrats to the team
20 on that success. I know it seems like it's been a long
21 process. And I think we do have a long way to go. It's
22 great to see how progress -- does the progress give and
23 how the data shows how important moving the needle on this
24 work is, capturing the returns available to leaders on
25 this, and getting the market to be one that allows the

1 talent pool to grow and flourish, so we don't have
2 companies with racism, sexism, homophobia standing in the
3 way of our success for our members.

4 In that context, I'm wondering if you can comment
5 on a couple pieces. The first, what is our support for
6 racial equity and civil rights audit proposals, which has
7 now been adopted by major companies like BlackRock and
8 State Street? And then second, what's our process for
9 accountability where among board directors where they lag
10 in this area and that may present a risk to our
11 performance going forward?

12 INVESTMENT DIRECTOR HAMBLY: Yeah. So the first
13 part was on the racial audit proposals, do I have that
14 correct?

15 COMMITTEE MEMBER WILLETTE: Um-hmm.

16 INVESTMENT DIRECTOR HAMBLY: Yeah. So we have
17 been supportive. These are proposals asking companies to
18 hire a third party to undertake a racial audit to see if
19 they have race issues throughout their business. We saw a
20 number of proposals in the last -- pretty much since 2020
21 asking for some of these and some have agreed to take it
22 on. Apple most recently has agreed to do one. So we have
23 been supportive of those proposals. And when we do see
24 the proposal we'll try to engage the company as well to,
25 you know, see what work they're doing, what their timeline

1 is for having that report produced.

2 On the Board side, every time we engage with a
3 company, one think we will look at is what is the board
4 diversity? What is the succession plan in the board room?
5 It's a key governance tenant and we will engage on that.
6 And then when we see a lack of progress in terms of
7 hitting certain milestones, is when we use our vote to
8 further that message.

9 COMMITTEE MEMBER WILLETTE: Okay. Thank you.

10 CHAIRPERSON MILLER: Okay. Next, I have Mr.
11 Ruffino.

12 ACTING COMMITTEE MEMBER RUFFINO: Thank you.
13 Thank you, Mr. Chair.

14 I want to go back to the executive compensation
15 piece, if you -- the line. I have a couple questions.
16 But before I ask the questions, I want to share with you,
17 and I'm sure you already know, but for the benefit of the
18 audience and everyone, obviously total pay for S&P 500
19 chief executives continue to increase --

20 INVESTMENT DIRECTOR HAMBLY: Um-hmm.

21 ACTING COMMITTEE MEMBER RUFFINO: -- and I think
22 that's no secret. In fact, multiple studies analyzing pay
23 in a variety of ways come to the same conclusion, CEO pay
24 continues to rise sharply. The gap between CEO and median
25 worker pay has also increased. In fact, according to the

1 AFL-CIO, the chief executives of S&P 500 companies
2 received an average of 324 times that of their median pay
3 workers up from 299 times in 2020 and 264 times in 2019.
4 And lastly, Amazon wins the prize. The CEO-to-worker pay
5 ratio reached, are you ready, 6,474 to 1 with the CEO
6 making 212.7 million in total compensation while the
7 median worker received \$32,855. 212.7 million versus
8 32,855.

9 Now, I know we vote in a couple weeks on CEO
10 compensation and I wanted to begin by saying
11 congratulations to CalPERS, because we have voted against
12 the top 100 79 percent of the time, and that's pretty
13 good.

14 INVESTMENT DIRECTOR HAMBLBY: Um-hmm.

15 ACTING COMMITTEE MEMBER RUFFINO: I think foreign
16 governments, the Dutch pension fund beats us. You know,
17 they were like in 90, but not very many. Well, Minnesota.
18 Minnesota beats us about 91 percent, but we're doing good.
19 Seventy-nine percent is good. Not so good on vote against
20 S&P 500. We are about 46 percent, just a little bit.

21 So now the question is I'm trying to understand,
22 and as my colleague Ramon Rubalcava was saying, last week
23 we got drilled. What's your policy? What is the policy?
24 And I'm trying to understand, you know, the policy better
25 on how we make those determinate -- those votes, and more

1 importantly, are there any plan changes in the future
2 giving what I just described?

3 Thank you.

4 INVESTMENT DIRECTOR HAMBLY: Okay. And thank you
5 for the question. So what we try to look at is a
6 combination of quantitative and qualitative factors that
7 go into CEO pay, so what is the structure, what types of
8 awards are they making, are they sufficiently long-term
9 vesting, so they're really aligned with long-term
10 shareholders. And then we'll look at the overall
11 realizable pay opportunities versus the grant date pay
12 opportunity and to see if it's aligned with peers and
13 performance. So we use a combination of factors that gets
14 us to that 49 percent last year when we voted.

15 We don't have any specific plans to change that
16 approach. But what we have done for this season is
17 contacted 100 companies in the portfolio that had strong
18 negative performance where we have some pay issues. And
19 we've started a number of meetings with those to try to
20 address some of the key tenets of ours, which is longer
21 term vesting, alignment, and trying to reduce that quantum
22 a little bit where we see the mismatch between realized
23 pay and granted value pay.

24 So we use those combination of factors. I can't
25 speak to how many. I don't want to tail-wag the dog how

1 many we -- what percentage we may vote against. But we
2 will continue to use that approach, which we think has
3 worked very well.

4 In terms of the fact that CEO pay generally
5 gets -- and you're right, it was up to -- meeting S&P 500
6 CEO pay last year was 15 -- or in 2021 was \$15.4 million.
7 It was up 15.8 percent year over year, which is the
8 largest increase year over year percentage increase in the
9 last 10. This year, we saw the S&P 500 down for the year
10 about 18ish percent. So I'm actually curious to see what
11 it's -- if we'll see that median go down a little bit this
12 year. But we will be working, like I said, with
13 companies -- our 100 worst performers in the portfolio
14 that we've already scheduled calls with to try to have
15 that conversation. So that's the new element that we've
16 added. But in terms of the -- the approach is pretty
17 solid. It's just can we reach more companies proactively
18 and that's the plan for this year.

19 ACTING COMMITTEE MEMBER RUFFINO: Do you think --
20 oh, go ahead.

21 MANAGING INVESTMENT DIRECTOR NZIMA: Well, if I
22 may jump in. I think what Drew mentioned, which is really
23 important, is this approach that actually looks at it's
24 pay for performance, not just pay. And there are others
25 out there who just look at the dollar quantum and vote

1 against those. Someone may say if you're earning more
2 than, you know, \$5 million, regardless of whether they
3 actually deliver in value or not, they vote against a pay
4 plan.

5 So the differences that you may see with what
6 others do may be how they approach it. We deliberately
7 decided that we wanted to, you know, approach it in a way
8 that those which added value can get rewarded. So if
9 you're actually adding value, then your pay is reflecting
10 that. But if it -- if you're not, then we vote against
11 you, so that's some of the differences when you look at
12 some of our peers in terms of their approaches. And we've
13 discussed with a number of our peers in this area, have
14 spent time speaking with them, and some reached out to us
15 to understand how we actually do the quantitative approach
16 as opposed just to throwing a dollar number on it.

17 Thank you.

18 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Just,
19 I'm sorry, to add one more pile on here. Simiso is being
20 too modest to acknowledge that the -- when we came out
21 with our new standards around executive say-on-pay, we
22 actually got quite a bit of sort of recognition in the
23 industry. And it was, you know, really kind of a
24 brainchild of Simiso and the team and now Drew really
25 adding to that. And so I do think it's worth mentioning

1 that it is intentionally a very thoughtful approach.

2 And then I guess just back to Ms. Ortega's
3 question around the benchmark narrowing, this is actually
4 one of the reasons for that narrowing. It happened, of
5 course, under Wilshire's leadership to narrow our
6 benchmark. But going from that sort of 12,000 companies
7 to call it 6,000 companies allows us to take a more
8 thoughtful approach on those 6,000 companies and allows us
9 just to reduce complexity in general. And that was kind
10 of some of the rationale for the narrowing under
11 Wilshire's leadership.

12 ACTING COMMITTEE MEMBER RUFFINO: Can I just ask
13 quickly, Mr. Chair, just a quick follow-up? And a dumb
14 question on our part. I'm not sure I know. And thank you
15 for sharing that. That's -- Dan, about, you know, that we
16 got recognizing. So kudos big time.

17 Can we simplify somehow this formula, so that our
18 stakeholders can understand it better, so that even yours
19 truly can understand it better, because right now, it is
20 very difficult to understand and to even communicate? I
21 just want -- just -- you know, just curious to know. And
22 are you familiar at all, even though I have not read it,
23 with the Massachusetts -- they have adopted a policy at
24 all. I'm not sure. We were told actually that they have
25 one that it's like a formula, that it makes it real

1 simple. If you don't make -- you know, if -- if you
2 exceed -- whatever. It -- I was just curious to know if
3 you had an opportunity or if you're familiar at all with
4 that formula or that policy.

5 INVESTMENT DIRECTOR HAMBLY: Unfortunately, I am
6 not familiar with the Massachusetts formula, but we could
7 certainly take a look at, if you are finding it -- our
8 approach complex, ways that we could simplify that for
9 everybody. It makes a lot of sense to us, but we do this
10 every day, but we'll see what we can do to make it easier
11 for people to understand.

12 ACTING COMMITTEE MEMBER RUFFINO: Perhaps, Mr.
13 Chair, if I may, maybe that could be an educational item
14 that could be provided to the Board.

15 CHAIRPERSON MILLER: Yeah, let's consider that
16 Committee direction to bring that back for a little more
17 fulsome discussion and hopefully make it a little more
18 comprehensible to us and our stakeholders.

19 INVESTMENT DIRECTOR HAMBLY: And just -- it's
20 very complex, the CD&As, which is the section of the proxy
21 statement that talk about the pay of five people have
22 expanded to cover about 60 pages. It boggles my mind
23 having done this for a very long time that it takes 60
24 pages to explain the pay of five people, but unfortunately
25 that's where the entire industry has gotten to. And one

1 of the things I did in my talk at CII was talk about
2 reducing that complexity too, because it shouldn't be this
3 complex, I agree.

4 ACTING COMMITTEE MEMBER RUFFINO: Thank you and
5 thank you, Mr. Chair.

6 CHAIRPERSON MILLER: Thank you.

7 Next, we have Director Middleton.

8 COMMITTEE MEMBER MIDDLETON: Thank you. And
9 first, I want to compliment both of you and everyone
10 involved in these efforts. CalPERS has historically taken
11 a leading role in trying to advance good corporate
12 governance.

13 INVESTMENT DIRECTOR HAMBLBY: Um-hmm.

14 COMMITTEE MEMBER MIDDLETON: And that's very
15 important to all of us.

16 Are there any organizations that you could single
17 out as being examples of organizations that are doing it
18 right, particularly in the area of diversity and
19 inclusion?

20 INVESTMENT DIRECTOR HAMBLBY: In terms of other
21 asset owners for example or --

22 COMMITTEE MEMBER MIDDLETON: Um-hmm.

23 INVESTMENT DIRECTOR HAMBLBY: So I did have the
24 benefit of having some discussions at CII last week with
25 some of the -- I think the European owners, the Dutch,

1 Norway, for example. I spoke on a panel in December with
2 some UK pension funds that are thinking a lot about these
3 issues. We have frequent conversations with some of the
4 New York pension funds and then some of the ones here in
5 California. So I think those are the ones that are --
6 have the bandwidth to spend the most times on these
7 issues, and we're trying to make sure that we keep
8 collaborating with them to make sure we're staying up to
9 date on best practices. So those are some of the
10 organizations that I try to, you know, frequently talk
11 with to make sure that we're staying on top of the most
12 relevant issues.

13 COMMITTEE MEMBER MIDDLETON: It's always
14 dangerous to deal in anecdotes, but I attended a couple of
15 National Association of Corporate Directors annual
16 conferences. And particularly from the conference last
17 fall, it was clear that progress is being made in terms of
18 diversity of gender equity, and that while there is a very
19 long way to go, the BlackRock presentation on some of the
20 corporate boards is certainly improved.

21 What did not appear to have had much of any
22 progress whatsoever was members of the Latino community or
23 among the lesbian, gay, bisexual, and transgender
24 community. Can you comment on work in that area, and most
25 particularly when it comes to the LGBT community, have we

1 made any progress in getting corporations to develop data
2 around membership?

3 INVESTMENT DIRECTOR HAMBLY: So in terms of --
4 and I'll speak in terms of the corporate boards. So you
5 are correct on the, you know, Latin American community.
6 We don't see the uptick that we've seen in per se women on
7 boards. One of the things we have tried to do when we
8 engage with companies is ask them to self-identify,
9 because we don't want to be in the business of trying to
10 guess --

11 COMMITTEE MEMBER MIDDLETON: Right.

12 INVESTMENT DIRECTOR HAMBLY: -- what somebody
13 identifies themselves in. And we're starting to see some
14 progress. I don't have hard numbers for you, but we're
15 starting to see, especially large-cap numbers, in their
16 proxy statements disclose at an aggregate level what they
17 consider to be the diversity. We know some directors
18 might not want to be -- oh, I don't want to be the Latin
19 American director, I just want to be a director. But
20 we're asking companies to, at a high level in the proxy
21 statement, talk about their overall boardroom diversity.

22 And so it's getting better. Our vendors -- for
23 example, Glass Lewis and ISS are sending out
24 questionnaires to companies usually in the large cap space
25 to try to get them to disclose as well, so we can start

1 capturing this data. It's better than it was three years
2 ago. We'll probably have more efforts on the ethnic
3 diversity. I haven't seen as much on the LBTQ[SIC]
4 community in terms of disclosure, but, you know, hopefully
5 we'll see some more of that, but that's the first steps
6 that we have been taking is asking companies to
7 self-identify their board members or at an aggregate
8 level.

9 MANAGING INVESTMENT DIRECTOR NZIMA: And if I --
10 if I may jump in. I think a couple of years ago, we
11 expanded the definition of diversity on our governance and
12 sustainability principles to include, you know, sexual
13 orientation, gender identity, and so forth for those same
14 reasons. I think this is one of the areas where we run
15 into data issues, because unless someone is
16 self-identifying, then we really don't know. And so this
17 work that is ongoing right now, where the vendors are
18 trying to get companies to get that data is going to help
19 us going forward.

20 On the Latino side, we've engaged in the past
21 with Latino Corporate Directors Association and exchanged
22 views around that. And we still continue to have contacts
23 there in terms of just expanding diversity across the
24 spectrum. So this is really an issue which is of high
25 importance. We know -- you know, this is one of the

1 things in our 2016 governance and sustainability strategy
2 plan, which was identified by the Board. So we'll take it
3 really seriously and it's a high priority for us.

4 COMMITTEE MEMBER MIDDLETON: Thank you. And
5 again, the progress that has been made over the last
6 decade or more is a demonstration that these efforts do
7 work.

8 INVESTMENT DIRECTOR HAMBLY: Um-hmm.

9 COMMITTEE MEMBER MIDDLETON: And that they can
10 work. We still have a much longer way to go. And I know
11 identification and self-identification is important. I
12 will say here publicly what I've said many times, any
13 corporation in this part of the 21st century who has
14 employees who are members of the LGBTQ community, who are
15 afraid to identify is the very definition of a corporation
16 that has a serious problem.

17 Thank you.

18 CHAIRPERSON MILLER: Next, I have Director
19 Pacheco.

20 COMMITTEE MEMBER PACHECO: Thank you, Chairman
21 Miller. And again, thank you, Drew. I want to just
22 follow up with another question about how, if at all, has
23 the anti-ESG legislation being drafted in certain states
24 impacted CalPERS's approach to corporate engagement?

25 INVESTMENT DIRECTOR HAMBLY: Yeah, thank you.

1 Yeah, a lot of discussion about that these days. So it
2 hasn't changed our approach to engagement at all in our
3 view. We think companies are very willing to talk to us,
4 because when we are engaging with companies, we're trying
5 to take ESG issues in time to material issues that might
6 affect the balance sheet or the income statement of that
7 company either today or in the future, and companies like
8 that input from us.

9 So privately, when we're talking one-on-one with
10 companies, they want to hear from thoughtful long-term
11 oriented investors, because they worry about some of the
12 short-term investors that in and out. So they really do
13 appreciate those discussions. So, you know, I guess
14 luckily for us we don't see any legislation coming out of
15 our state that would inhibit our ability to do it.

16 And so the other state legislation isn't
17 affecting us and to date haven't had any companies, you
18 know, turned down engagement with us. They do want to
19 hear from us on these topics and hear our views.

20 MANAGING INVESTMENT DIRECTOR NZIMA: If I -- if I
21 may jump in. I think the one potential impact is if these
22 states' pension funds or external managers change their
23 voting practices, in such a way that some the work that
24 we're trying to do in improving governance and
25 sustainability, some of these companies, then they'll get

1 less support of those shareholder proposals than in the
2 past. So I think that's a potential impact, depending on
3 what the pension funds or external managers that manage
4 money for some of these states do.

5 COMMITTEE MEMBER RUBALCAVA: Okay. Thank you.
6 One more, just a follow-up from the previous question on
7 Starbucks and so forth.

8 INVESTMENT DIRECTOR HAMBLY: Um-hmm.

9 COMMITTEE MEMBER RUBALCAVA: You had mentioned
10 that next week you're going to have an engagement --

11 INVESTMENT DIRECTOR HAMBLY: This week actually.

12 COMMITTEE MEMBER PACHECO: This week with the
13 actual company or --

14 INVESTMENT DIRECTOR HAMBLY: Correct.

15 COMMITTEE MEMBER PACHECO: So have we taken a
16 position yet on what -- on how we would be voting or is
17 that something -- I just want to know the process of that,
18 how that works.

19 INVESTMENT DIRECTOR HAMBLY: Yeah. So we -- the
20 team is, you know, formulating our view today. We'll have
21 a discussion with the company to see if they tell us
22 anything that either they're working on or not before we
23 make a final determination. So I don't want to kind of
24 show my hand to the company --

25 COMMITTEE MEMBER RUBALCAVA: Of course.

1 INVESTMENT DIRECTOR HAMBLY: -- we're going to
2 talk to later, but that was top of mind for us. We
3 reached out to them and we had them on our short list for
4 a number of topics that we'd like to talk about including
5 this one. And so we'll have that meeting at some point
6 this week before we make a final voting decision.

7 COMMITTEE MEMBER PACHECO: Very good. Thank you
8 very much.

9 INVESTMENT DIRECTOR HAMBLY: You're welcome.

10 CHAIRPERSON MILLER: All right. Thanks. Well, I
11 don't see any more questions or requests to speak. And I
12 must say this has been a wonderful presentation, wonderful
13 discussion. I thank you and the team. I thank my
14 colleagues for their thoughtful questions and appreciate
15 your equally thoughtful and helpful answers, so -- and
16 welcome aboard and look forward to many more such
17 discussions.

18 INVESTMENT DIRECTOR HAMBLY: Great. Thank you,
19 everybody.

20 CHAIRPERSON MILLER: And so that brings us to 6C,
21 our CalPERS trust level review consultant reports.

22 BOARD CLERK ANDERSON: Chair -- Chair Miller, we
23 had public comment for that item.

24 CHAIRPERSON MILLER: Oh, so do we want to take
25 the public comments before we go to the next item or at

1 the end? Okay. Let's start -- I think the -- we've got
2 public commenters. I've got a number of them for 6B.
3 We'll start with Mr. Jim McRitchie who I believe is on the
4 phone

5 STAKEHOLDER RELATIONS ASSISTANT DIVISION CHIEF
6 TEYKAERTS: Yes, Chair Miller. Thank you. Go ahead,
7 James.

8 MR. MCRITCHIE: Yes. This is Jim McRitchie. You
9 can hear me, right?

10 CHAIRPERSON MILLER: Yep. Welcome. You have the
11 floor.

12 MR. MCRITCHIE: Okay. I'd like to get four
13 minutes, if possible. The CalPERS -- as a CalPERS
14 retiree, active in shareholder engagements, I was excited
15 to see the pie charts on page 11B. It looks like we've
16 filed hundreds of proposals. But a more careful
17 examination turns up only two on climate risk and two on
18 diverse elections. That's beyond the 50 proxy access
19 proposals over negotiated out.

20 Now, I myself I filed 90. So I look at four
21 proposals and think that's far too few. My recommendation
22 is the reports should highlight the work of CalPERS, so
23 that you can tell how many proposals we filed in the
24 different categories and we should hire staff or partner
25 with organizations, so that we can file more proposals.

1 Some other topics. CalPERS is targeting 50
2 companies for proxy access. Our propose -- I looked at
3 the proposal SKLA in 2020, which sought to place an upper
4 limit on the number of directors shareholders could
5 nominate to or one-quarter of the Board, but lower limits.
6 So, for example, Arch Resources known for mountain top
7 removal, and EOG Resources formerly known as Enron, limit
8 nominees to one. Yet, it takes two directors to even
9 consider a motion.

10 Additionally, since the CalPERS proposal is
11 silent on the size nominating group -- the size of
12 nominating groups, companies are free to impose group
13 limits, such as 20, which the Council of Institutional
14 Investors finds unworkable. These proposals are worse
15 than nothing. They can't be used by even the largest
16 public pensions and they can't be amended. What's in
17 place? Since the group limit of 20 is fine for the big 3,
18 they won't vote to raise group limits once set, since they
19 can use proxy access without any partners. This is one
20 reason why proxy access has only been used once in its
21 full history. So my recommendation is to either reword
22 these proposal or stop the effort.

23 I'm sure the Board is also aware that anti-ESG
24 movements to restrict power of large funds. One tactic is
25 to require that funds survey their investors to pass

1 through votes they hope that individual investors will
2 vote against measures that address climate change,
3 diversity, and other critical topics. CalPERS isn't
4 immune from these attacks. Companies, such as Iconik App
5 to Broadridge offer surveys and pass-through voting
6 services.

7 My recommendation is that CalPERS should survey
8 its members on broad categories of proxy issues. This
9 would serve to first educate members, and second to
10 buttress the systems when it's attacked. The new services
11 offered by Iconik App, Broadridge and other also allow
12 retail shareholders to automate votes with their values,
13 much like CalPERS uses Glass Lewis to cast most of -- most
14 of our votes automatically based on our proxy voting
15 policies.

16 The New York City Comptroller and others
17 consistently post their votes before voting deadline.
18 CalPERS, on the other hand, posts our votes after the
19 meeting, so we don't influence other voters, even though
20 the Board committed to do so years ago. My recommendation
21 is that CalPERS should post it votes in advance to
22 increase our influence and to help our proxy voting
23 policies succeed.

24 Thank you very much.

25 CHAIRPERSON MILLER: Thanks, Jim. Appreciate it

1 and we've got your handout here as well.

2 Okay. Next, we have Sarah Theiss. Is Sara in
3 the room or is she on the line?

4 Oh, okay. There she is. Come on up.

5 Okay. Welcome. You'll have three minutes and
6 the light will come on and the clock will start when you
7 identify yourself and begin.

8 MS. THEISS: Yes. Thank you. As you know or
9 some of you know, I'm Sara Theiss. I am a happily retired
10 CalPERS retiree and I can't tell you how much I appreciate
11 the retirement I have. I know you do a lot of stuff and
12 you're very -- you know, work hard. I myself, of course,
13 have my one thing that I care about a lot that I often
14 talk about and that is the issue of engagement, divestment
15 and fossil fuels. So anyway, what I want to talk about
16 today is the relationship between the two of them and it's
17 really becoming mainstream thinking that an engagement
18 strategy must include the threat of divestment. And one
19 example of why that -- you know, how mainstream it is, the
20 in -- the International Association of Insurance
21 Superintendents, that's the standard setting body for
22 insurance company regulation. They concluded that an
23 effective shareholder strategy requires a clear threat of
24 divestment if performance is unsatisfactory.

25 And it was interesting to me to hear the Climate

1 Action 100 report, because when I looked at Climate Action
2 100, they had in the fall done a report that said even
3 targeted companies with net zero commitments have not
4 developed or implemented credible decarbonization
5 strategies, or plans, or -- and are not on track to align
6 with the Paris goals. So I don't know what the -- you
7 know, there's a big gap between what I read from Climate
8 100 and what was reported today, so I can't really say
9 anything else about that, but I was surprised at the
10 report.

11 It's clear all the oil majors continue to explore
12 and drill. So, I mean, that goes to the second point,
13 which is, you know, engagement is not working. It's not
14 working in the timeline that the planet needs. You might
15 remember that last year -- last December, the House of
16 Representatives committee released its findings of a
17 two-year investigation of the fossil fuel industry.
18 Documents from the company showed that for decades, they
19 had worked to deceive the public, undermine the
20 credibility of climate science and scientists, mislead the
21 public by advertising the commitment to cleaner energy,
22 even as invest in fossil fuels, and engage in extensive
23 greenwashing with public images, you know, promises and
24 actions they knew would not meaningfully reduce emissions,
25 even as they are moving to lock in continued fossil fuel

1 production for decades to come.

2 And as one member of the Committee put it, it was
3 a successful PR strategy. The cynicism was breathtaking,
4 and unfortunately it was quite successful. So the climate
5 disaster is at a point where really engagement -- it's too
6 late for engagement, so I really urge you to begin to
7 divest.

8 Thank you.

9 CHAIRPERSON MILLER: Thank you. Next, we have Al
10 Darby.

11 Oh, there he is.

12 MR. DARBY: I don't want to speak under this
13 item. I want to speak on E and F I believe.

14 CHAIRPERSON MILLER: Okay. Then we have Jason
15 Opena Disterhoft. I hope I didn't mangle that too badly.

16 Welcome, sir, and you'll have three minutes. The
17 time will come up when you identify yourself and start
18 your presentation.

19 (Thereupon the meeting reconvened
20 open session.)

21 MR. OPENA DISTERHOFT: Hi. Thanks. My name is
22 Jason Opena Disterhoft with Majority Action, an advocacy
23 group focusing on systemic risks to shareholder value and
24 proxy voting tools to mitigate those risks. Thanks for
25 the illuminating presentation on CalPERS vital stewardship

1 work and the Committee's really deep engagement on this
2 issue. We appreciate CalPERS leadership in acknowledging
3 that climate change is a top threat to the fund's primary
4 mission of paying benefits to plan participants and
5 fiduciary duty demands a robust strategy to bring
6 portfolio companies into alignment with the Paris
7 Agreement.

8 As acknowledged, one of the most powerful tools
9 is holding directors accountable at climate-laggard
10 companies. So members should be pleased with the new
11 steps that were announced today continuing CalPERS
12 leadership on this score.

13 As we documented in our report on Climate Action
14 100+ signatory voting in 2022, CalPERS flagged six
15 directors at misaligned companies, three times as many as
16 any other investor. It also opposed more directors
17 overall year on year. So in support of CalPERS efforts to
18 mitigate climate risk, we do see an opportunity for the
19 fund to fortify its board accountability work going
20 forward.

21 Our data indicates that in 2022, CalPERS voted in
22 support of the entire Board at 8 of the 25 most climate
23 misaligned companies in the S&P 500. That includes four
24 key companies from the oil and gas sector, which as MSCI
25 has shown is on track for a 6.8 degree temperature rise

1 and includes four utilities in a sector on track for 3.4
2 degree increase.

3 So from our vantage point, CalPERS may want to
4 join two PRUS pensions who supported zero full boards at
5 those companies. So we'd like to offer two opportunities
6 for strengthening this work. First, given CalPERS
7 influence in moving markets, the fund could amplify the
8 impact of its votes by declaring climate votes in advance
9 ideally within two weeks of proxy filing, expanded
10 flagging of director votes, and publishing rationales for
11 all climate director votes.

12 And second, CalPERS may want to join peer funds
13 who have recently strengthened the criteria in their proxy
14 voting guidelines. CalPERS could consider making it clear
15 that it will vote against directors at companies that
16 did -- do not take basic steps to mitigate climate risk
17 including a net zero by 2050 commitment, medium-term
18 targets compatible with cutting emissions in half by 2030,
19 and CapEx and policy influence aligned with those targets.
20 And we'd be happy to provide specific suggestions on
21 language if helpful.

22 So thank you for CalPERS work in this area nd we
23 urge the fund to continue to build on its leadership in
24 the coming months.

25 Thanks.

1 CHAIRPERSON MILLER: Thank you very much.

2 I think that's all we have on 6B.

3 Okay. So we will move on to 6C

4 COMMITTEE MEMBER RUBALCAVA: Mr. Chair, can I
5 make a quick comment?

6 CHAIRPERSON MILLER: Oh, yes, Mr. Rubalcava. Let
7 me get you --

8 COMMITTEE MEMBER RUBALCAVA: I just want, if I
9 could have early --

10 CHAIRPERSON MILLER: Microphone.

11 There you go. You have the floor, sir.

12 COMMITTEE MEMBER RUBALCAVA: Thank you, Mr. Vice
13 President.

14 As I said earlier, I was fortunate enough to
15 attend my first CII conference along with Mr. -- Frank.
16 And I was very pleased to have a lot of materials
17 available. I, too, have those reports from Majority
18 Action and I appreciate Majority Action and all the
19 activists there participating in this sphere of influence,
20 if you will, trying to be responsible speaking for the --
21 for the stockholders, I guess.

22 And I'm glad we have the opportunity to here from
23 our public testimony. So appreciate all this more and
24 more every day. Thank you. Sorry.

25 CHAIRPERSON MILLER: Thank you. So okay, moving

1 on. 6C, CalPERS trust level review, our consultant
2 reports.

3 (Thereupon a slide presentation).

4 MR. TOTH: Good morning. Tom Toth Wilshire
5 Advisors. In your Board packet, we've included Wilshire's
6 trust level performance report, which includes a few
7 slides on the market environment to provide some context
8 around portfolio performance. Heading into 2023, we
9 started to move past some of the investment risks that
10 presented pretty unique diversification challenges from a
11 portfolio construction perspective.

12 The investment outlook does remain beset with
13 elevated geopolitical risks, slowing economic growth,
14 heightened uncertainty around corporate earnings, and now
15 concerns about the banking system. And given these tight
16 financial conditions and more restrictive monetary policy,
17 investors are looking toward the next phase of the cycle
18 and the timing of a potential market recovery. So we'll
19 talk about how some of these challenges have evolved to
20 start this year before moving into the portfolio outlook
21 and total fund performance.

22 If I can direct you to Attachment 1, page 3 of
23 57.

24 --o0o--

25 MR. TOTH: This shows the significant growth in

1 the Fed's balance sheet from less than 1 trillion
2 pre-global financial crisis to four and a half trillion
3 dollars in 2014 to a high of almost \$9 trillion in the
4 aftermath of the pandemic and it currently stands at about
5 eight and a half trillion.

6 On the same chart, you can see in blue the path
7 of short-term interest rates. And on the far right, you
8 can get a sense for the speed with which the Federal
9 Reserve has acted to tame inflation.

10 On the next page 4, you can get a sense --

11 --o0o--

12 MR. TOTH: -- for what that pace looks like in
13 comparison to prior tightening cycles. And suffice to say
14 that the speed of rate increases stands out versus these
15 past cycles. And the ultimate impact on the real economy
16 is yet to fully play out. And we're certainly seeing some
17 of those impacts in the market today.

18 Now, elevated levels of inflation fuel this
19 aggressive action to tighten monetary policy, which pushed
20 up treasury yields across the curve. This in turn weighed
21 on investor sentiment and led to meaningful retrenchment
22 in equity valuations. Just this last week, we were
23 offered a sharp lessen around risk in the current
24 environment with the collapse of Silicon Valley Bank and
25 others, which over the weekend resulted in the Federal

1 Reserve program to support bank withdrawals and provide
2 deposit guarantees.

3 I think there are two lessons worth highlighting
4 for the Board. One is the value of diversification. As
5 company or sector-specific investment concerns can rear
6 their head in an unpredictable way and consistent with
7 Investment Belief number 6, the CalPERS portfolio is
8 diversified across many distinct risk factors to help
9 mitigate these company or sector-specific downside risks.

10 The second is the value of liquidity management,
11 which, in many ways, appears at the heart of the ban --
12 some of the banking collapse. And this is a risk that
13 CalPERS has executed on successfully during a particularly
14 challenging market environment.

15 If we can turn to page 5 --

16 --o0o--

17 MR. TOTH: -- at the start of the year, the
18 market had increasingly priced in a more moderate pace of
19 rate hikes as measured by the red line. Think about that
20 as market expectations for the path of interest rates.
21 This was in contrast to the Federal Reserve communications
22 that interest rates were going to stay as high as
23 necessary for as long as necessary to tame inflation.
24 That would be the blue line on that chart.

25 This year, we have repeatedly seen investor

1 sentiment shift between optimism and pessimism that peak
2 interest rates are in sight. This was positive for assets
3 in Q4 of 2022, which we'll see in the performance report,
4 and the first month of 2023. In February and the start of
5 March, market expectations moved closer to the federal
6 reserve. And you can see those market expectations shift
7 in the green line. This led to a pull back in asset class
8 performance over the last few weeks. And as it happens,
9 we are in the midst of another reevaluation of the path of
10 interest rates literally as we speak, as those
11 expectations have once again shifted down.

12 You can see on page 6 --

13 --o0o--

14 MR. TOTH: -- that fortunately we are beginning
15 to see a reprieve in inflationary pressures with declining
16 commodity prices, improvement in supply chains, and some
17 falling demand for goods. But inflation remains much
18 higher than the Federal Reserve's 2 percent target.

19 On the next page, you'll note that labor markets
20 remain tight --

21 --o0o--

22 MR. TOTH: -- which is supportive of wage growth,
23 but is also potentially inflationary. And it's this
24 balance between economic activity and inflation, which is
25 a delicate one that the Federal Reserve is striving to

1 navigate.

2 If we flip forward to page 11 of 57 --

3 --o0o--

4 MR. TOTH: -- the silver lining of the market
5 volatility experienced in 2022 are more attractive
6 forward-looking expected returns for multi-asset investors
7 like CalPERS. On page 11, rising interest rates have
8 increased expected returns from core fixed income to
9 almost 5 percent from 2 percent one year ago, so more than
10 a doubling in expected return for that building block
11 asset class.

12 Moving out on the risk spectrum, high yield
13 expected returns have increased from below 4 percent to
14 over six and a half percent. Global equity expected
15 returns have also increased from around 5 percent to just
16 over 7 percent. An important point is that that increase
17 has been a little bit smaller than that seen in fixed
18 income. So when you consider the relationship between
19 expected returns for equities versus fixed income, the
20 equity risk premium has compressed. And this is an
21 important point for investors as they think about
22 portfolio construction and risk taking in an uncertain
23 environment

24 Utilizing tease expected returns, if you can flip
25 to page 12, you can see that outlook --

1 --o0o--

2 MR. TOTH: -- for the portfolio. And we actually
3 have three different expected returns here. I'll explain
4 briefly what they each are starting from the left-hand
5 side. The left-hand side is the target allocation
6 approved by the Board. The middle is the interim target
7 allocation as set forward in the transition plan from the
8 old asset allocation to the new target. And the actual
9 allocation is, in fact, the snapshot of the portfolio at
10 the end of 2022.

11 The big takeaway from this chart is not so much
12 the comparisons across them, although suffice to say you
13 are moving from a portfolio with an expected return over
14 the next 10 years of 7.2 percent to one with an expected
15 return of 7.35 percent with some enhanced diversification.
16 It also has a moderately lower risk level for the target
17 portfolio of 12.33.

18 But a big takeaway from here, which I wanted to
19 mention is the change for these numbers relative to where
20 we sat one year ago. So given the expected return change
21 as I mentioned, a year ago, those portfolio expected
22 returns were closer to 5 percent versus 7.2 to 7.4
23 percent. So very significant increase in forward-looking
24 expected returns.

25 Now, turning to portfolio performance starting on

1 page 16.

2 --o0o--

3 MR. TOTH: The total fund was up strongly in the
4 fourth quarter, up 5.5 percent outperforming the benchmark
5 return, which was up 4.7 percent. This recovery did come
6 after a number of very challenging quarters, which leaves
7 the full year performance at negative 11.2 percent, which
8 does represent outperformance versus the policy benchmark,
9 which was down 12.6 percent.

10 If we turn to fiscal year performance, and this
11 gets into attributing the drivers of that relative
12 performance versus the benchmark, on page 18 --

13 --o0o--

14 MR. TOTH: -- you can see the single biggest
15 contributor there was, in fact, private equity, which
16 added 181 basis points on a fiscal year-to-date basis.
17 That was followed by private debt, which added 14 basis
18 points of positive relative performance.

19 Those outsized impacts, I want to, you know,
20 point out for the Board and kind of set the stage for
21 time -- for results moving forward as valuations for
22 private assets come into line with the drawdowns and the
23 volatility that we've seen in public markets. We do
24 expect that to moderate. A lot of that is going to come
25 down to strong underwriting, what that drawdown looks

1 like. But I want to make that point for the Board as we
2 look at these performance reports through time.

3 You'll note that real assets was a negative
4 relative performance contributor to the tune of about 35
5 basis points for the fiscal year, but that was the single
6 asset class for the full year that was positive. So from
7 a diversification standpoint, real assets did play a
8 strong role. Again going back to that high level
9 portfolio construction and the desire to have a number of
10 different risk factors present in the portfolio.

11 And then to wrap up, I will point you to page 19.

12 --o0o--

13 MR. TOTH: This shows the rolling excess return
14 of the portfolio versus its policy index. You can see
15 that it turned positive in call that the middle of 2021
16 and has remained above zero since. The goal in terms of
17 portfolio construction and implementation is to improve
18 the consistency of active returns going forward to
19 effectively shift that line higher and that is a key topic
20 across the Investment Office is looking for the most
21 appropriate places to take active risk in areas where you
22 feel you will be compensated. Again, very much aligned
23 with the CalPERS Investment Beliefs.

24 --o0o--

25 MR. TOTH: And then on page 20, we don't just

1 want to focus on returns, we want to look at risk as well.
2 This is one measure of risk admittedly imperfect, which is
3 rolling tracking error or active risk. You can see that
4 that active risk line has moved higher, moderately, after
5 bottoming at just under 1 percent. It currently sits at
6 just under 2 percent. But for the Board, important to
7 keep in mind that that is well within reasonable levels of
8 total fund active risk.

9 And on a related note, the actionable tracking
10 error, which you'll see mentioned in your materials, sits
11 at 10 basis points. And this is -- for the benefit of the
12 Board, this is active risk, which is directly controllable
13 by staff actions. So less not im -- it's not impacted by
14 the differences in valuation between public and private
15 markets, for example.

16 So at 10 basis points, that's well within the 1
17 percent limit set by the Board. So there is room to
18 increase that in a thoughtful and judicious way in the
19 current market environment. And as you think about
20 investment broadly, it is nice to have room to add active
21 risk when there's uncertainty in the market.

22 So with that, I will stop and see if there are
23 any questions from the Committee.

24 CHAIRPERSON MILLER: Thank you very much and
25 there are. I'll start with Director Pacheco.

1 COMMITTEE MEMBER PACHECO: Yes. Thank you.
2 Thank you, Tom, for that wonderful presentation as always.
3 So my question is on page 16 of 57, I notice that the real
4 assets and the private equities were the top performing
5 asset classes in 2022. I'm curious, what are the -- what
6 are the near-term challenges facing those asset classes in
7 particular, if you can elaborate on that?

8 MR. TOTH: I'd be happy to, Mr. Pacheco. So for
9 private equity, I think the challenge is from a mark to
10 market standpoint is one of valuation. At the end of the
11 day, as you think about economic drivers for private
12 equity, they are subject to the same economic strictures
13 as public equity, but they're not valued in the same way,
14 minute by minute, every trading day. So they just tend to
15 move more slowly. So I think that valuation component is
16 going to flow through across time and it will be a mix of
17 both the -- if we get a recovery in public markets,
18 that -- you know, that's how they could sort of come
19 together through time.

20 I do think it's important to point out that as we
21 look at performance comparisons, if we look at the 10-year
22 number for private equity, it has been very robust, a
23 significant premium over both the policy benchmark with a
24 return of 12.4 percent versus a benchmark of 10.8 and
25 relative to public equity, which had a return of 8.5

1 percent. So those are the most pertinent performance
2 numbers on here for those less liquid asset classes, but
3 in terms of the say upcoming challenges, in terms of mark
4 to market, I think valuation is one for private equity.

5 For real assets, it's related, but I think there
6 are a lot of underlying -- and we actually talked about
7 this a little bit in the last discussion, the demand for
8 real estate and the composition of that demand is
9 undoubtedly shifting. And that's going to take some time
10 to play out through the portfolio's valuation, less demand
11 for office space, more demand for industrial, shifting
12 demand for retail, potentially more demand for
13 multi-family given housing constraints. And managing that
14 through time, I think is that's a portfolio construction
15 discussion. But you're likely to see some more
16 challenging marks as we -- as we move through a new higher
17 interest rate environment and that flows through real
18 estate activity.

19 COMMITTEE MEMBER PACHECO: Thank you, Tom, for
20 that.

21 Thank you.

22 CHAIRPERSON MILLER: Okay. I'm not seeing any
23 other requests to speak. Oh, no I am.

24 Director Palkki.

25 COMMITTEE MEMBER PALKKI: Thank you again for the

1 report. In a scenario of cause and effect, does the
2 dramatic increase in interest rates over the past 12
3 months change how we should view bonds in the asset
4 allocation? And then how would that -- if so, how does
5 that change how we view asset allocations moving forward
6 in the future?

7 MR. TOTH: Mr. Palkki, great question. The --
8 so the straightforward impact is that looking forward
9 expected returns for fixed income are meaningfully higher.
10 In other words, from a strategic asset allocation
11 perspective, the utility of utilizing bonds is much
12 stronger. In addition, from a diversification and a risk
13 perspective, there is room for interest rates to act as a
14 buffer for riskier segments of the portfolio. So there's
15 utility on both a risk management per -- from a risk
16 management perspective and from a return perspective
17 relative to where we were 12 months ago.

18 Now, as we think about the targets for the
19 current portfolio, the PERF portfolio never dramatically
20 reduced its exposure to fixed income in a very significant
21 way. And by significant, I mean moving from let's say 25
22 percent core fixed income to 10 percent core fixed income.
23 So the value to increasing fixed income from here doesn't
24 really exist to my -- in my view. I do think it was --
25 this discussion was part of the asset allocation process

1 in the last go round and will be part of the mid-cycle
2 review where it would be appropriately reevaluated based
3 on where market -- or expected return assumptions sit at
4 that point.

5 As it stands now, given the target asset
6 allocation that you do have a reasonable level of fixed
7 income within the portfolio to take advantage of that
8 higher utility I referenced at the outset.

9 COMMITTEE MEMBER PALKKI: Thank you.

10 MR. TOTH: Of course.

11 CHAIRPERSON MILLER: Okay. I've got Lynn Paquin.

12 ACTING COMMITTEE MEMBER PAQUIN: Thank you.

13 Thanks so much for the presentation. I'm just curious
14 with the ongoing volatility and, you know, we discussed a
15 little bit about the events this past weekend with the
16 regional banks, do you have any concerns about the
17 portfolio's liquidity at this point or about the use of
18 leverage?

19 MR. TOTH: Ms. Paquin, the short answer is no. I
20 think that because -- and this is a great example of
21 planning and then execution, because the liquidity
22 dashboard has been in place now as a liquidity management
23 tool for quite some time, it can be -- you have time
24 series of data looking at coverage ratios in stressed
25 environments. Not surprisingly, this would qualify as one

1 of those stressed environments and has not run into
2 challenges from a liquidity management perspective that
3 I'm aware of.

4 Now, could other issues crop up? I believe it's
5 possible. But because of the coverage ratios that the
6 liquidity dashboard illustrates, you have room there to
7 the point where you're not in a position where you're a
8 forced seller of assets. And that's what's really
9 important, being able to maintain your investment
10 portfolio through volatile environments, potentially even
11 take advantage of those volatile environments, and then
12 come out the other side with higher levels of expected
13 return.

14 So the short answer to your question, Ms. Paquin,
15 is no, I don't -- I don't anticipate challenges as a
16 result of this weekend's events.

17 ACTING COMMITTEE MEMBER PAQUIN: Well, thank you.
18 And what about the use of leverage as we see interest
19 rates continuing to remain high, has that changed the
20 strategy at any point?

21 MR. TOTH: So strategically, no, I don't believe
22 it changes the strategy. But tactically, if you think
23 about the shape of the yield curve, and given that it's
24 inverted, i.e. short-term interest rates are higher than
25 long-term interest rates, that does play into the calculus

1 of borrowing, because when you're borrowing, you're
2 generally borrowing towards the short end, and assets that
3 are being purchased tend to have longer duration.

4 So from a tactical implementation standpoint on a
5 day-to-day management basis, leverage looks a bit less
6 attractive than it did previously. But strategically, and
7 this again is a multi-year time horizon, the benefits of
8 leverage from a diversification standpoint should hold as
9 the interest rate environment normalizes, whether that's
10 with shorter term rates coming down to where they're below
11 longer term rates or the longer and moving a bit higher in
12 order to get that upward sloping yield curve.

13 ACTING COMMITTEE MEMBER PAQUIN: Great. Thank
14 you.

15 MR. TOTH: Um-hmm.

16 CHAIRPERSON MILLER: Okay. I'm seeing no further
17 questions. Thank you very much.

18 MR. TOTH: Very good. Thank you all.

19 CHAIRPERSON MILLER: Appreciate it. Great
20 report.

21 And looking at the time, I'm thinking we might
22 want to break for lunch and then come back and kick it off
23 with Mr. McCourt at 1 o'clock. Is that -- so we will be
24 in recess until 1 o'clock to have some lunch and then come
25 back in on the rest of Item 6C, because it's been over two

1 hours now that we've been at it. So see you all at 1
2 o'clock.

3 (Off record: 11:55 a.m.)

4 (Thereupon a lunch break was taken.)

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1 The first report I'll go through is the private
2 equity report. That is presented in your packet in Item
3 6C, Attachment 3. Private equity as an asset class is the
4 investment in privately owned companies, generally through
5 private equity managers that CalPERS engages. You invest
6 in private equity largely because it's the asset class
7 that's expected to have the highest rate of return over
8 long periods of time. And in your case, that expectation
9 has been met.

10 CalPERS approach to the private equity asset
11 class is one that includes significant diversification
12 within the private equity asset class, invests
13 predominantly through fund vehicles, which themselves
14 affect diversification, and in recent years has emphasized
15 more investments in customized investments accounts and
16 co-investments, which are lower fee, lower expense modes
17 of investment in the asset class.

18 As a reminder, private equity as an asset class
19 had its target allocation of the fund increase from 8
20 percent to 13 percent in the last asset allocation review.
21 And your staff has been in the process of meeting that new
22 target allocation over time. Risks in the asset class
23 include leverage, illiquidity, execution risk, and
24 headline risk.

25 I'll summarize the review quickly. From a

1 performance perspective, returns have been very strong.
2 Over the last decade, your private equity portfolio has
3 returned 12.4 percent per year exceeding its benchmark
4 index over that time period. Over the last one year,
5 you'll note from your report that your private equity
6 asset class, while being down 2.3 percent, exceeded the
7 return of the benchmark by 17.3 percent. And as was
8 highlighted in the previous presentation to you, much of
9 that difference is a result of your benchmark in private
10 equity being a public market benchmark, and private market
11 assets have been slower to adjust valuations to the
12 reality of higher interest rates in the economy than the
13 public market is. The private equity portfolio is
14 invested within all risk parameters and is aligned with
15 the policy that you've set forth for it.

16 On a forward-looking basis, the two most
17 significant items we would highlight to you is on the risk
18 side as was noted before, valuations of private equity
19 vis-à-vis public companies. There's clearly after two
20 years of the private equity asset class outperforming
21 public equities by a significant amount. Some gap between
22 private equity valuations and public equity valuations,
23 the big question mark of course that nobody can answer
24 with precision is how big of that gap actually exists?

25 And so we do expect that in 2023 private market

1 valuations will over time adjust to reflect the current
2 interest rate and economic environment. Just how much
3 they adjust is anyone's guess. And we would fully expect
4 that at the end of the adjustment period, the performance
5 of private equity continues to be stronger than the
6 performance of public equity.

7 The other item I would highlight, which you're
8 well aware of is amongst the many initiatives and progress
9 within the private equity asset class. The area that has
10 had the most significant activity for the last several
11 years has been the growing emphasis on co-investment
12 opportunities within the asset class, which aligns with
13 your strategic goals and plan for the asset class to grow
14 the allocation and continually look for ways to invest
15 with lower fees and expenses.

16 Moving on to the real estate review, this will be
17 Item 6C, Attachment 4. Real estate assets in your fund
18 are privately owned commercial real estate properties.
19 They, too, are generally managed by third-party asset
20 managers. And those assets predominantly fall for
21 institutions like yourselves in the office, retail,
22 industrial, and multi-family sectors of the real estate
23 market.

24 CalPERS business model and approach to real
25 estate investing involves allocating the bulk of the real

1 estate capital to 10 external managers that manage
2 sector-specific customized accounts where your investment
3 team has significant control over the strategy,
4 deployment, leverage and risk involved in those accounts.
5 That model is -- has proved scalable and fee efficient
6 over time for CalPERS.

7 The program is very diversified by property type
8 and is focused in the U.S. The assets in the portfolio
9 today are largely conservative core assets with relatively
10 low leverage.

11 The allocation to real -- to real assets, which
12 real estate comprises a piece of, also increased modestly
13 during the last asset allocation review. And the risks
14 within the asset class include leverage, economic risk,
15 and illiquidity.

16 Summarizing our six-month review of the real
17 estate. First and foremost, our conclusion is that the
18 real estate team is executing strategy as you would
19 anticipate as the Board setting policy for real estate.
20 Returns for the asset class for you have been roughly
21 between 8 and 10 percent per year over all trailing
22 periods. In fact, all of these private market asset
23 classes have returns of roughly 10 percent or higher over
24 the last decade.

25 2022 and so far in 2023, and we think probably in

1 2024, real estate is one of the more interesting asset
2 classes across the capital markets really for two reasons.
3 One, arguably no other asset class was impacted in such a
4 significant and structural way by the pandemic than was
5 real estate. It changes the way -- the pandemic changed
6 the way people work and live in ways that are structural
7 for the asset class.

8 Also, as much as any other asset class, real
9 estate has been impacted by rising interest rates. Both
10 of those factors have been recognized fairly swiftly with
11 real estate properties in companies that trade publicly,
12 but they have not been recognized swiftly by real estate
13 managers and their funds that operate in the private
14 markets. And as a consequence, you saw in 2022, real
15 estate returns strongly positive and obviously valuations
16 not just stable but increasing throughout the year,
17 despite the fact that interest rates were rising and fears
18 of a recession were growing.

19 Again, like private equity, we would think that
20 over the next 12 to 18 months, there'll likely be some
21 rationalization of valuations within real estate. Like
22 private equity, the -- as real valuations become
23 rationalized and assets are repriced in the marketplace,
24 it's hard to know -- hard for anyone to know exactly where
25 real estate values will end up when the dust settles, when

1 transactions start happening in the market place again.

2 For the meantime, your portfolio is very
3 diversified across sectors, very diversified across all
4 elements that one would be concerned with from a risk
5 perspective and is in a very strong position relative to
6 where many institutions saw their real estate portfolios
7 prior to the last major recession, the global financial
8 crisis.

9 In terms of forward-looking risks and
10 opportunities, the major risks that we see in the short
11 term relate to valuations and real estate sectors. Those
12 are referred to as cap rates generally. We and everyone
13 else in this industry do expect valuations to contract as
14 we go through the year somewhat.

15 Structurally, there's risk and uncertainty around
16 those pandemic issues I alluded to. Exactly how are
17 businesses going to be using office space over the next
18 decade? Exactly how are stores going to be selling goods
19 over the next decade? The answers to those questions, you
20 know, will be a big part of the decisions that your team
21 makes on your behalf going forward.

22 The final asset class I'll review is
23 infrastructure. This is Attachment 3. Infrastructure
24 you'll recall was folded under the real assets asset class
25 several years ago. Infrastructure investments are

1 investments in privately owned infrastructure assets.
2 These are largely assets in the energy and renewable
3 space, utilities, transportation assets, and assets that
4 generally have long-term contracted revenue with strong
5 counterparties from a credit risk perspective.

6 Institutions like CalPERS invests in
7 infrastructure because it tends to be a defensive asset
8 class relative to others, produces cash flows, and it has
9 a time horizon of the assets that's aligned with the time
10 horizon of liabilities of defined benefit plans,
11 multi-decade in most cases.

12 CalPERS approach to investing in infrastructure
13 is one that involves largely investing in infrastructure
14 funds and separate accounts. It's a very diversified
15 approach, as all of your asset classes are. And unlike
16 real estate, your infrastructure asset class is globally
17 diversified. So a little more than 40 percent of your
18 assets today are outside the U.S. in infrastructure. And
19 that's largely a reflection of the reality today that most
20 infrastructure assets are held outside the U.S.

21 In a really positive trend, we're very pleased to
22 see that the allocation to infrastructure has now reached
23 3 percent of your total fund. That's a significant
24 increase relative to where it was just five or six years
25 ago. And for a fund the size of CalPERS, it's no small

1 task to move these allocations up a few percentage points.
2 Risks in the asset class include valuation risk, leverage,
3 and counterparty risks.

4 Summarizing the review. The returns of asset --
5 of infrastructure for you have been 8 to 10 percent -- 8
6 to 11 percent per year over time, since you began
7 investing in the asset class about 12 or 13 years ago.
8 You'll see in the infrastructure report that because
9 infrastructure assets are held inside your Real Asset
10 Program and your Real Asset Program has a benchmark that's
11 a real estate benchmark, the report for reporting purposes
12 compares your returns to the real estate benchmark, so
13 it's kind of apples and oranges. And in recent years,
14 where real estate valuations continue to expand,
15 infrastructure assets did not. So in this past year, your
16 infrastructure portfolio returned 8.3 percent, which is
17 strong on an absolute basis when capital markets are going
18 down, but underperformed the technical policy real estate
19 benchmark of 21 percent. Over time, the infrastructure
20 assets have outperformed the real estate benchmark.

21 Your infrastructure team has invested, over the
22 last 6 months, the infrastructure assets within all the
23 parameters set by policy by you. And on a forward-looking
24 basis, when we think about risks and opportunities in the
25 asset class, the risks for this asset class have been

1 fairly consistent for the last 12 or 13 years, which is
2 really risks of scaling, how does an institution the size
3 of yours deploy sufficient capital, so that the attributes
4 of the asset class can move the needle for CalPERS as a
5 whole. And your staff has been doing a nice job of that.

6 So with that, that concludes my formal
7 presentation of the reviews. Happy to take any questions.

8 CHAIRPERSON MILLER: Great. Thank you for the
9 presentation. And I think it's been very well received
10 and we have a few questions. And I'll start with Director
11 Pacheco.

12 COMMITTEE MEMBER PACHECO: Thank you. Thank you,
13 Steve, for that wonderful presentation and so forth. So
14 my question is back to the real estate question, should
15 the Committee be concerned with the one year real estate
16 return underperforming the benchmark by 5.2 percent? Does
17 Meketa have any recommendations or suggestions for
18 suggest -- for such an action or its -- for its -- or
19 its -- or is the long-term strategy still working?

20 MR. McCOURT: Great. Thank you. The short
21 answer is we do not have concerns about the one-year
22 underperformance of roughly 500 basis points. In our
23 estimation, the environment that we find ourselves in is
24 one where different asset owners are taking different
25 approaches to valuing real estate. And those that are

1 more aggressive at valuing real estate properties
2 precisely relative to the current interest rate and
3 economic environment will have very different return
4 outcomes than those that try to maintain their valuations
5 higher.

6 So -- and I think unfortunately, Jose Luis, that
7 probably for the next 12 to 18 months, it's going to be
8 very difficult to compare any investor's returns in real
9 estate -- private real estate to broader real estate
10 benchmarks, because valuation of the policies can differ
11 significantly. There's also a lot of difference in
12 returns across real estate sectors.

13 So short answer is we don't have any concern.
14 Longer answer is we think that for the next few reporting
15 periods, the returns differentials, which may look really
16 good in some periods, may look really bad in others is
17 really more a reflection of the idiosyncrasies of how
18 valuations work in the marketplace as opposed to
19 reflecting any skill or luck from your investment team.

20 Longer terms are very strong, consistent, and
21 aligned with your expectations of the asset class.

22 COMMITTEE MEMBER PACHECO: Excellent. Thank you
23 very much.

24 CHAIRPERSON MILLER: Okay. Next, I have Director
25 Middleton.

1 COMMITTEE MEMBER MIDDLETON: Steve, thank --
2 (clears throat) -- excuse me. Thank you. And I've got a
3 few questions for you.

4 Let's pick up right where Mr. Pacheco left off
5 with real estate assets. And clearly, there is a great
6 amount of uncertainty in valuation in real estate today.
7 Shouldn't that be creating some opportunities to leverage
8 our ability to move in the market?

9 MR. McCOURT: Yeah. Maybe I'll invite Christy
10 and Reggie to come up to give you some more perspective on
11 their day-to-day involvement with the real estate asset
12 class. But as they come up, I would highlight that
13 there's bound to be opportunities in the marketplace. The
14 most interesting part of the asset class so far is the
15 lack of transactions.

16 COMMITTEE MEMBER MIDDLETON: Right.

17 MR. McCOURT: So we're just at a point in time
18 where there's no ability to execute on opportunities that
19 you see, even if you see them. That will change,
20 eventually, but I'll hand it off to Christy first to say a
21 few words.

22 MS. FIELDS: Thank you. I would also just
23 reiterate I think a point that Steve made earlier is what
24 a tremendously better position the portfolio is in today
25 relative to 10 or 12 years ago when it took literally

1 three or four years to get yourselves back on track and
2 get those portfolios worked out. And so you have both an
3 interesting opportunity set ahead of you and you're also
4 in a position to take advantage of that opportunity set as
5 it begins to present itself.

6 MR. ROSS: And the one thing I would add is for
7 an organization like CalPERS that has the ability to buy
8 properties without using leverage, without using debt. So
9 you are going to be and your teams are going to be able to
10 take advantage of owners who have broken capital
11 structures, need to refinance their debt but can't get --
12 borrow money from a loan -- from a bank. So those
13 opportunities should be available.

14 Whether that happens? I mean, we've seen, you
15 know, SVB over the weekend.

16 COMMITTEE MEMBER MIDDLETON: Right.

17 MR. ROSS: The depositors be bailed out, right?
18 And so we don't know to what extent real estate owners
19 will be distressed.

20 COMMITTEE MEMBER MIDDLETON: Um-hmm.

21 MR. ROSS: But in the case they are, your teams
22 will be able to take advantage of those.

23 COMMITTEE MEMBER MIDDLETON: All right. So I
24 think what I'm hearing is there are going to be
25 opportunities. They've just not occurred yet.

1 MR. ROSS: (Nods head).

2 COMMITTEE MEMBER MIDDLETON: All right. Move on
3 to a couple of questions in private equity. We're trying
4 to move from an 8 percent to a 13 percent allocation. Are
5 you satisfied with the pace of growth that you're seeing?

6 MR. McCOURT: Yes, the -- your allocation has
7 grown for two reasons and Nicole can probably tell you
8 within a few basis points the contribution of each. One
9 has been the increased volume of private equity
10 commitments that your staff has made over the last several
11 years.

12 And just to give you a general sense of that, 7
13 or 8 years ago, your private equity staff was allocating
14 about \$4 billion a year to private equity opportunities.
15 Now, you're 12 to 15 billion dollars a year-ish. So
16 they're executing at a much higher volume than they were
17 before. And as those commitments get called over time,
18 the dollars you have invested in the asset class increase.

19 Also, what's happened at the same time is what's
20 referred to as the denominator effect, and private equity
21 at its current valuations has monumentally outperformed
22 public stocks and bonds for the last two years. And so
23 I've -- your allocation has increased meaningfully because
24 of that as well. So we're -- we'd rather it increase,
25 while public stocks go up, and -- but the denominator

1 effect has elevated the allocation even beyond, you know,
2 where I'm sure staff's expectations were at this point.

3 COMMITTEE MEMBER MIDDLETON: Does that argue to
4 you that we should be re-examining whether or not 13
5 percent is the right allocation given this market, and
6 does it have any impact on what you think our pace of
7 growth should be in private equity?

8 MR. McCOURT: So two separate things. From a
9 strategic perspective, the -- one of the reasons that
10 CalPERS historically has had the private equity target
11 allocation it has over time is CalPERS' ability to deploy
12 capital in the marketplace.

13 And so as CalPERS finds ways to deploy more
14 capital efficiently in the market place, the -- that limit
15 of scale becomes less present. And so it allows tow think
16 about higher allocations.

17 Whether a higher allocation than 13 percent
18 target is merited, that's really obviously an asset
19 allocation --

20 COMMITTEE MEMBER MIDDLETON: Um-hmm.

21 MR. McCOURT: -- decision by which, I mean, it's
22 a function of how attractive is the asset class relative
23 to all others? And since liquidity was brought up in the
24 past, probably -- well, almost certainly, the constraining
25 factor on private equity and real estate and

1 infrastructure tends not to be the return expectations or
2 risk in the asset class. It's really the illiquidity that
3 CalPERS can afford or not over time.

4 And so to the extent that CalPERS considers
5 higher allocations to private market asset classes, that
6 analysis should be married closely with liquidity stress
7 testing and liquidity analysis.

8 COMMITTEE MEMBER MIDDLETON: Right. As we try to
9 deploy more resources in private equity, are you satisfied
10 that we have the internal capacity to grow?

11 MR. McCOURT: Yeah. Obviously, a new -- a new
12 head of private markets was announced this morning, which
13 is a great leadership position. We're, you know, aware of
14 efforts, you know, with inside the private equity team to
15 elevate the leadership within the team and also continue
16 hiring more people to do the work to get the allocations
17 up.

18 So it's something we have our eye on closely.
19 For now, you know, I'd say that we're satisfied that the
20 team, as it currently consists, is able to execute the
21 policy well.

22 COMMITTEE MEMBER MIDDLETON: All right. Thank
23 you. One last question on infrastructure. With the
24 Inflation Infrastructure and Jobs Act that the federal
25 government has put into place, does that, in your mind,

1 create some additional opportunities for American-based
2 infrastructure projects and do you see that as an area
3 that we should be growing our investments?

4 MR. McCOURT: Yeah. So the Infrastructure Act
5 probably has elements that will be helpful for deploying
6 capital and maybe some elements that compete with you for
7 deploying capital. But the overriding element of it is
8 the deployment of those federal fund is very long term.

9 COMMITTEE MEMBER MIDDLETON: Um-hmm.

10 MR. McCOURT: So it's not like it would have a
11 meaningful impact one way or the other in the short term.
12 Most of your infrastructure assets are what's called core
13 assets. They're not -- they're not development assets.
14 Most of the federal funding will go towards development of
15 infrastructure. So to the extent -- but probably the most
16 favorable thing to come out of that legislation would be
17 really a refocus of the country on the benefits of
18 investing in infrastructure. And as more -- if it leads
19 to more and more states and federal government recognizing
20 the need for more modern infrastructure in the country,
21 that will certainly increase the sourcing of deal flow
22 that you see as an institution.

23 COMMITTEE MEMBER MIDDLETON: All right. Steve,
24 thank you and your team, and thank you, Mr. Chair.

25 CHAIRPERSON MILLER: Okay. Next, I have a

1 question from Dr. Gail Willis.

2 COMMITTEE MEMBER WILLIS: First of all, Steve,
3 I'd like to thank you for your presentation. It was
4 excellent, very well done, very organized. I would like
5 to know why 43 percent of our investment in infrastructure
6 is outside of the U.S.? If you can kind of clarify that
7 information.

8 MR. McCOURT: Yeah, infrastructure, as an asset
9 class, the vast majority of the transactions that occur,
10 that occur outside the U.S. So relative to the broader
11 market, your portfolio is U.S. biased. You have more
12 investments in the U.S. than the average investor. But
13 without the ability to invest in infrastructure outside
14 the U.S., it would be very challenging to achieve even the
15 3 percent allocation to the asset class that you have
16 today.

17 So the strategy in infrastructure, the primary
18 objective and goal of it was to and is to deploy capital
19 at a scale that will make a difference for CalPERS. And
20 in the current marketplace, that requires that a certain
21 amount of the capital be deployed outside the U.S.

22 In the future, who knows if infrastructure
23 becomes a more available asset class in the U.S. There's
24 more room for your investment team to orient the portfolio
25 to the U.S. at that time. I will highlight as well though

1 that the assets outside the U.S. in all other ways reflect
2 the risk -- the conservative risk posture that the assets
3 inside the U.S. have. They're core assets that are
4 defensive in nature generating cash flow for you.

5 COMMITTEE MEMBER WILLIS: Thank you very much.
6 Appreciate it.

7 CHAIRPERSON MILLER: Okay. Next, we have
8 Director Willette.

9 COMMITTEE MEMBER WILLETTE: Thank you so much.
10 Thank you for these reports. And I appreciate the
11 thoughtfulness and thoroughness of your whole team.

12 So in the, I guess, private equity conversation,
13 I recall at the November Committee meeting, this Committee
14 asked for a team to prepare a proposal of a workplan for
15 the incorporation of workforce issues into our private
16 equity policies and practices. I think it's really
17 critical for our fiduciary interest to be able -- to kind
18 of be able to analyze that and look at it. An example
19 recently has hit the news with the child labor, a
20 portfolio company at one of our major partner firms. And
21 so I'm asking if you can give us an update on where we are
22 with those private equity policies and practices.

23 MR. McCOURT: Yeah, I'm not aware of the
24 investment team's engagement in that, so maybe I'll hand
25 it over to Nicole if she has any update.

1 CHIEF INVESTMENT OFFICER MUSICCO: Right. Yeah,
2 I just was -- sorry, Mullissa, I was just clarifying if
3 this is the RCP question that we had at the last Board
4 meeting and our incorporation into private equity, is
5 that -- is that correct?

6 COMMITTEE MEMBER WILLETTE: Yes.

7 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. So what
8 we've tried to do, it's a -- it's a tough needle to thread
9 to have our private equity investors where we don't have
10 the vast majority of ownership or the vast majority of the
11 capital to basically direct the GP to do certain things.
12 And so the approach we've been taking, which we found
13 great success in, is more through the lens of our ESG
14 framework, if you will, where in diligence for each and
15 every diligence exercise, we do, whether it's with a GP or
16 with a co-investment itself we have a set framework that
17 would be in the spirit of what is being asked through the
18 responsible contracting program, but not with the same
19 legal teeth or, you know, signatory if you will.

20 So the activity, and the thoughtfulness, and the
21 endgame being that we're -- we are aware of and getting
22 the information that we need in order to either make new
23 decisions or make a decision not to invest, because we
24 don't think that the practices line up with our values or
25 our views of -- that are important, we've been using this

1 ESG framework approach in diligence, as opposed to the
2 impossible -- the impossible ask of us having our GPs
3 within the private equity space take on that RCP approach
4 that we've used with our -- with our real asset managers.

5 COMMITTEE MEMBER WILLETTE: Okay. Thank you for
6 that response.

7 CHAIRPERSON MILLER: Okay. Next, we have
8 Director Rubalcava.

9 COMMITTEE MEMBER RUBALCAVA: Thank you. Great.
10 I like the presentation also. Thank you.

11 I -- one of the questions I had, Trustee
12 Middleton asked about the infrastructure, but I do have a
13 follow-up on the infrastructure. Actually two. In the
14 risk presentation, you mentioned one of the risks is
15 counterparty risk, which when I looked through the --
16 through your memo and it wasn't there. So what is
17 counterparty risk?

18 MR. McCOURT: Counterparty risk -- and I know --
19 I know in the presentation that the investment team is
20 going to give next, they have a slide which is really
21 nice, because it highlights some counterparty risk.
22 Counterparty risk is contracting risk. When you have a
23 contract for someone to pay you money over a certain
24 amount of time, they can only pay you money if they have
25 it to pay. And the risk of them going bankrupt or

1 defaulting on that is a risk to you, because they won't --
2 they won't satisfy their contract.

3 In not all, but many infrastructure assets, there
4 are long-term often take-or-pay contracts with
5 counterparties. And the counterparties can be cities, or
6 states, or foreign governments, other agencies that will
7 purchase a certain amount of fuel or energy in some cases
8 from you for 10, 20, to 30 years. They will guarantee you
9 a stream of revenue, but that guarantee is only as good as
10 their credit worthiness. And their credit worthiness is
11 what we describe as counterparty risk.

12 COMMITTEE MEMBER RUBALCAVA: Thank you.

13 MR. McCOURT: Yeah

14 COMMITTEE MEMBER RUBALCAVA: The other thing --
15 one thing you did have in your presentation is a slide
16 about dry powder and how it's dramatically increased. Do
17 you see that increasing, continually increasing, or you
18 think there will be a point where things will again
19 provide opportunities? I mean, I know it's only three
20 percent asset at the total fund, but it seems like this is
21 something that can't go forever, I mean, especially as
22 we -- Mr. Middleton raised the administration's Federal
23 Infrastructure Act and things like that.

24 MR. McCOURT: Yeah. I've been doing this a long
25 time. I've never seen dry powder come down in the private

1 markets. I don't -- I think there's a significant amount
2 of demand. I know there's a significant amount of demand
3 for infrastructure, and private equity, and real estate
4 from all institutional investors. And there's only a
5 limited ability to deploy that capital at any moment in
6 time. And to the extent that that demand exceeds the
7 supply, you have elevated levels of dry powder.

8 So my guess, Mr. Rubalcava, is that the dry
9 powder will probably continue to increase over the next
10 several years and it may increase, you know, up until
11 institutional investors have kind of reached their natural
12 equilibrium of allocation that they can make to these
13 illiquid asset classes.

14 COMMITTEE MEMBER RUBALCAVA: Okay. Thank you.

15 And my last comment, and also like a request, Mr.
16 Chair, is one follow-up on Ms. Willette's statement on
17 private equity. And I think that the question is not how
18 much -- I mean, I guess it was a question about how --
19 what the ESG framework is. But one thing that I think I
20 raised at the last meeting is that there needs to be
21 document -- I'm not sure document is the right term, but
22 we need to promulgate some sort of policy like just like
23 we do on the other asset classes for private equity. And
24 it could be -- like you said, it's -- there's some
25 challenges, but we should still try to create the language

1 as to what -- how are we going to align with our partners,
2 our fund managers, what have you, around private equity?
3 Because, you know, we all heard, you know, the sad story
4 about children who were vulnerable because they were
5 undocumented being used to clean slaughterhouses at night.

6 And I mean, that's a tragic story, but I don't
7 know that it's that unusual in certain industries and in
8 certain sectors where the private equity tries to say it's
9 not our fault because it's a subcontractor of a
10 subcontractor and we're not responsible.

11 I don't want to hear those stories, so I'm
12 thinking I need to reiterate what I did last time is that
13 we need some sort of policy, particularly for private
14 equity. And that would be my request, Mr. Chair.

15 Thank you.

16 CHAIRPERSON MILLER: Okay.

17 CHIEF INVESTMENT OFFICER MUSICCO: If I may just
18 respond. Again, I just want to put -- make sure there's
19 some clarity and context on what you're asking for when
20 you say policy, because the challenge we have is that we
21 treat our ESG approach with our partners. And I would
22 think of it similar to our engagement. So every single
23 one of our GPs knows that we have an extremely high
24 standard of expectation or they simply just do not become
25 our partner.

1 The way that it manifests itself is during our
2 diligence process, where we have very specific questions
3 and asks, not only in the moment, but as part of our
4 ongoing monitoring and engaging with those partners. And
5 as you know, those private equity partners come back to us
6 every couple years for more capital. Those private equity
7 partners call upon us for co-investment opportunity. And
8 each and every time that they do that, where they're
9 asking for more capital from us or engaging with us, we're
10 setting this very high expectation. And it's an overt, if
11 you are not able to deliver us on certain asks or requests
12 through our diligence lens -- our ESG diligence lens, then
13 that absolutely feeds into our ability to fund you.

14 And so we use more of an engagement approach,
15 because we are a teeny-tiny piece of any one of these
16 investment pools alongside these GPs. And so I'm just --
17 I want us to be careful when we use that word "policy",
18 because with it brings weight. Because if we, CalPERS,
19 were to have a policy, then we will be shut out of the
20 private equity investing industry, because no private
21 equity firm is going to be open to there being a policy
22 put on them to take sour capital.

23 What they absolutely have to do is respond to our
24 requests for transparency, respond for our requests to fix
25 things. And oftentimes, you're our biggest allies,

1 because your stakeholders bubble up many of these issues,
2 which allows us to go to our partners and say, hey, this
3 has been brought to our attention and we would like an
4 answer on this. We would like to see a fix on this.

5 Having that engagement approach is going to be
6 much more impactful, if you will, because we just simply
7 will not be able to invest in private equity programs, if
8 we try to impose a so-called policy on them, because
9 they'll just say we don't need your capital.

10 COMMITTEE MEMBER RUBALCAVA: I'm very
11 appreciative of the engagement approach and I understand
12 there's challenges, but just like -- but there still has
13 to be something articulated. Maybe it could be
14 summarizing what those -- that screen -- those
15 questionnaires or whatever. There needs to be something
16 that we can point to saying we do have standards --

17 CHIEF INVESTMENT OFFICER MUSICCO: Yes.

18 COMMITTEE MEMBER RUBALCAVA: -- because we
19 don't -- I don't want to keep reading about things where
20 we're reacting instead of being proactive. They should
21 know up front, you know, that CalPERS will be monitoring,
22 that CalPERS does have guideposts, or does have
23 expectations, and they have to align with our values too.

24 CHIEF INVESTMENT OFFICER MUSICCO: We could
25 absolutely --

1 COMMITTEE MEMBER RUBALCAVA: I know we -- I know
2 that --

3 CHIEF INVESTMENT OFFICER MUSICCO: We could
4 absolutely come back for -- to you and give you --

5 COMMITTEE MEMBER RUBALCAVA: Yeah, and it has to
6 be a balance, because you know, we --

7 CHIEF INVESTMENT OFFICER MUSICCO: -- a much
8 deeper view into that.

9 COMMITTEE MEMBER RUBALCAVA: I know like the
10 presentation was that private equity is the -- has the
11 biggest returns, but at the same time, I don't want to
12 have blood on our hands either, so...

13 CHIEF INVESTMENT OFFICER MUSICCO: Understood.

14 COMMITTEE MEMBER RUBALCAVA: I want us to make
15 sure, especially young kids.

16 CHIEF INVESTMENT OFFICER MUSICCO: Absolutely.

17 COMMITTEE MEMBER RUBALCAVA: So I just want to
18 make sure we do something that lays it out as best as we
19 can, given the constraints and the challenges we have.

20 CHIEF INVESTMENT OFFICER MUSICCO: Well, we'd
21 welcome the opportunity to come back to the Board --

22 COMMITTEE MEMBER RUBALCAVA: Please.

23 CHIEF INVESTMENT OFFICER MUSICCO: -- and give
24 you a real insight into what our ESG risk framework looks
25 like. Again, I say risk, it's risk and investing, and how

1 we layer that into --

2 COMMITTEE MEMBER RUBALCAVA: Framework is fine.

3 CHIEF INVESTMENT OFFICER MUSICCO: -- each of our
4 conversations. And that starts our dialogue. And we'll
5 learn, you know, maybe we're missing an area that you'd
6 like us to dig into deeper as we move forward in our
7 diligence, but allow us to bring that forward and then
8 let's go from there.

9 COMMITTEE MEMBER RUBALCAVA: Thank you.

10 CHIEF INVESTMENT OFFICER MUSICCO: Okay. Thank
11 you.

12 CHAIRPERSON MILLER: Yeah. Let's take that as
13 Committee direction.

14 And it looks like I have Frank Ruffino.

15 COMMITTEE MEMBER RUBALCAVA: Thank you, Mr.
16 Miller.

17 ACTING COMMITTEE MEMBER RUFFINO: Yeah, thank
18 you, Mr. Chair. I just want to add a quick comment and
19 I'm not an expert on this, but obviously policy it's an
20 issue with respect to what was just discussed. And maybe
21 you want to call it expectations. Maybe it's just some
22 general principles, you know, that -- around things that I
23 think should be common sense. Well, forget common sense.
24 I'm not sure what that means nowadays, but --

25 (Laughter).

1 ACTING COMMITTEE MEMBER RUFFINO: -- some things
2 that we can all agree, you know, like -- or even
3 suggesting to our LP, to the general partners and their
4 portfolio company to adopt, you know, such policy. Maybe
5 we don't impose our policy, but we can say, the general
6 framework of expectation. We can set that up.

7 So I believe, Mr. Chair, it would be worthwhile
8 to engage both our consultant and our staff and input from
9 this Board to see if we can come up with something that it
10 could work for everyone, under the guidance of Nicole.

11 Thank you, Mr. Chair.

12 CHIEF INVESTMENT OFFICER MUSICCO: Thank you.
13 Yeah, the good news is we're not starting from a standing
14 start, because there's been just incredible work done by
15 the Institute of Limited Partners Association, ILPA. We
16 often refer to them. And for years now, they've been very
17 focused and engaged on all areas of the E, and the S, and
18 the G, and they have very specific frameworks that each of
19 us limited partners evolve -- adapt, evolve, et cetera,
20 and use. And so maybe we take this in phases. We come
21 forward with the tools that we have at our disposal. We
22 layer on the additional things that we as CalPERS have
23 been using in our framework and open the dialogue and go
24 from there, if that makes sense. Is that a comfortable
25 next step?

1 CHAIRPERSON MILLER: Um-hmm.

2 CHIEF INVESTMENT OFFICER MUSICCO: Okay.

3 CHAIRPERSON MILLER: And I thought I had somebody
4 after Frank, but I'm not seeing anybody. Did I lose
5 somebody here with the -- okay. I think that about wraps
6 it up then. We have a public comment on this item, but
7 thank you, everyone, for your presentations and your
8 thoughtful responses, and really appreciate it.

9 MR. McCOURT: Thank you.

10 CHAIRPERSON MILLER: And we have public comment
11 on 6C from Alyssa Giachino, if you would come down.

12 Okay. And you'll have three minutes after you
13 introduce yourself and start speaking.

14 MS. GIACHINO: Good afternoon, Committee members.
15 Alyssa Giachino with the Private Equity Stakeholder
16 Project. Thank you to the Board members that flagged the
17 child labor issue. I am here to speak on that and
18 appreciate that you are already paying attention to it.

19 So CalPERS has more than \$8 billion invested with
20 the private equity and real estate from Blackstone.
21 Blackstone owns Slaughterhouse Cleaning Company, Packers
22 Sanitation, or PSSI.

23 Packers Sanitation last month paid 1.5 million in
24 civil penalties after the U.S. Department of Labor's Wage
25 and Hour Division found the company had employed at least

1 102 children, some as young as 13 years old, in hazardous
2 occupations of quote/unquote oppressive child labor and
3 had them working overnight shifts at 13 slaughterhouses in
4 eight states. The children were working with hazardous
5 chemicals and cleaning meat processing equipment,
6 including back saws, brisket saws and head splitters.

7 Investigators learned at least three minors
8 suffered injuries, including caustic chemical burns while
9 working for Packers. Quote, "These findings represent a
10 systemic failure across PSSI's entire organization to
11 ensure that children were not working in violation of the
12 law", the DOL said. The DOL alleged that Packers
13 Sanitation also interfered with an investigation by
14 intimidating child workers to stop them from cooperating
15 with investigators. Packers also lee -- allegedly deleted
16 and manipulated employment files.

17 Blackstone has owned Packers Sanitation since
18 2018. Blackstone senior managing directors Peter Wallace,
19 David Kestnbaum, Vikram Suresh, and Blackstone operating
20 partner Jeffrey Overly served or recently served on
21 Packers Sanitation's board.

22 A year ago in March 2022, we released a report
23 detailing how Packers Sanitation stood out as a dangerous
24 workplace even as Blackstone has collected hundreds of
25 million of dollars in debt-funded dividends from the

1 company. Since May 2018, when Blackstone acquired PSSI,
2 OSHA has conducted investigations of at least four
3 amputations and three fatalities of PSSI employees
4 including a decapitation. Blackstone has not responded to
5 multiple requests to discuss labor violations at Packers.

6 Given that Blackstone has half a million
7 employees in the U.S. and around the world, the DOL
8 findings should be a wake-up call about the risks that
9 Blackstone poses to workers and investors. CalPERS should
10 halt new investments with Blackstone until the firm adopts
11 and implements a comprehensive policy to address labor
12 standards, labor compliance and human capital risks across
13 its portfolio. Packers underscores the risk in CalPERS
14 private equity portfolio. Some of you were alluding to
15 that a moment ago.

16 It is not the only case where PE managers are
17 failing to appropriately respond to labor concerns. We
18 urge CalPERS to take further steps to ensure its external
19 managers are accountable for their impacts on communities
20 and workers.

21 Thank you so much.

22 CHAIRPERSON MILLER: And thank you for your
23 comments. I think that wraps up Item 6C.

24 And so that brings us to 6D, CalPERS trust level
25 review.

1 CHIEF INVESTMENT OFFICER MUSICCO: Thank you very
2 much. I'm going to ask Lauren to join. Thank you,
3 Lauren.

4 (Thereupon a slide presentation).

5 CHIEF INVESTMENT OFFICER MUSICCO: So this our --
6 the new version I referred to in my opening remarks today
7 of our trust level review. The approach we through we'd
8 take today, since we've had great presentations on macro
9 in general, we're hoping this is going to be a very open
10 session for questions. I've chosen maybe a dozen or so
11 slides for us to focus on just to give a little bit more
12 detail on our specific performance, but we'll keep this
13 interactive. I've asked Lauren to come up to give an
14 overview through the macro lens initially, and then I'll,
15 as I said, go through a few slides.

16 The idea here is that I referred to it in my
17 opening remarks as, you know, you -- it gives you an
18 opportunity to be in our kitchen. And what I mean by that
19 is we want to give you insight into what we're thinking
20 about, not only what happened but going forward different
21 strategy thinking that we have through the different asset
22 classes and as well just to keep the dialogue open. And
23 we'll have further opportunity during closed session to
24 get into questions as well.

25 So maybe with that, I will pass it over to Lauren

1 to get us started.

2 INVESTMENT DIRECTOR ROSBOROUGH WATT: Thank you,
3 Nicole. Hello. Lauren Rosborough Watt here, Investment
4 Officer at CalPERS. And it's a pleasure once again to be
5 in front of you today. Although, I have to say it's
6 always a difficult task after Tom at Wilshire. He does
7 such and excellent job at talking through the key drivers
8 and themes in the market and global economies.

9 My role here today is to talk to you around the
10 macro drivers of our 2022 calendar year returns. And to
11 do that, I'm going to take a step back and remind you of
12 the starting point where we came from, and that is the
13 pandemic three years ago now, hard to believe, but it's
14 still impacting us today.

15 From a macroeconomic perspective, and you can see
16 here on this slide - and I've spoken to this previously
17 when I was hear last year as well - that the pandemic was
18 exceptionally large and very rapid external, what we call,
19 exogenous shock, and the corresponding fiscal and monetary
20 support was equally historically large. So key economic
21 variables in this case in the U.S., but also globally,
22 such as real economic activities, real GDP, and inflation
23 experienced significant variability, in fact, the most
24 that we've seen in 40 years. And you can see that on the
25 chart identified in the red oval.

1 So to give some context to the asset returns,
2 because I'm talking of course about economics here. So
3 when we're coming into the start of 2022, let's recall, as
4 I said the starting point, the U.S. and global economies
5 had sort of come out of this pre-opening boom. And so
6 asset valuations were high across most asset classes, you
7 know, you and I, residential real estate. That one we're
8 familiar with, but of course equities and bonds, a number
9 of other asset classes as well. And importantly,
10 short-dated interest rates both here in the U.S. were at
11 or near zero.

12 When we think about what happened over 2022,
13 expectations are a component of that, because the market
14 pricing today is based on expectations for the future.
15 And those expectations by both analysts and market pricing
16 was for economic activity to ease back, but there was
17 quite a wide range of expectations around the pace or the
18 path by which that would occur.

19 So what actually transpired, well, the U.S. And
20 global economies did indeed slow, but there was a
21 revaluation as expectations weren't met, both for growth
22 and for inflation. What we saw was that the pace of
23 growth hastened in the middle of 2022 and throughout the
24 remainder of that year until -- sorry, into 2020 -- into
25 the middle of 2022 into Q3.

1 Inflation was more persistent than what the
2 market was pricing. And, you know, we can -- we can talk
3 to two notable events that I'm sure you're familiar with,
4 one being the Russia-Ukraine conflict and the other one
5 being China's zero COVID policy. And that had an impact
6 both on growth, inflation, and also the variability in
7 inflation. Key here for asset returns also was in 2022,
8 it saw the most rapid tightening of monetary policy since
9 the early 1980s and Tom spoke to that. And that was
10 globally, not just in the U.S.

11 Next slide, please.

12 --o0o--

13 INVESTMENT DIRECTOR ROSBOROUGH WATT: So when we
14 think about the implications for that, we had rising
15 inflation and rising policy rates, and that pushed
16 long-data treasury yields higher. And as you know, as
17 yields go up, bond returns decline. We'd fall in
18 growth -- we meaning the -- what we -- what we experience
19 falling growth and growth expectations, rising central
20 bank or short-dated interest rates, and very high
21 inflation, and that pushed down equity returns.

22 And as you can see on this cart here, which is
23 displayed using annual data for clarity of the
24 illustration, 2022 was one of only a handful of years in
25 nearly the past 100 where both treasury bonds and stock

1 market returns were negative. And you can see that in the
2 bottom left-hand quadrant.

3 So in this situation, bonds were no longer acting
4 as a reliable hedge to equities as they have done in
5 recent history. Looking forward, even if this
6 relationship remains, bonds still do act as a diversifier
7 to the portfolio, especially when yields are much higher
8 as they are that we see today. And, in fact, the movement
9 that we've seen over the past couple of days, today in
10 particular with treasury yields rallying, so treasury
11 yields falling, bond returns rising as testament to that
12 behavior.

13 My final chart here today is just to reinforce
14 the point that we had this very unusual combination in
15 2022 of tightening monetary policy, so rising rates --
16 that would be the next slide, please.

17 --o0o--

18 INVESTMENT DIRECTOR ROSBOROUGH WATT: Thank
19 you -- higher uncertainty and volatility, which were
20 raising what we call the risk premium. We had high
21 inflation, lower growth, and greater uncertainty. It's a
22 very unusual combination. And as you can see here once
23 again, this is an illustrative example. It hurt the
24 majority of asset prices over 2022 calendar year.

25 Thank you for your time. I'll pass now back to

1 Nicole.

2 CHIEF INVESTMENT OFFICER MUSICCO: Great.

3 Thanks, Lauren.

4 So please forward one slide, please.

5 --o0o--

6 CHIEF INVESTMENT OFFICER MUSICCO: So again, the
7 purpose of this slides we're drawing out here is just to
8 try to get a little bit more into the weeds of what
9 happened in 2022 and then we'll dig into whatever
10 questions you may have.

11 And the context and the backdrop of everything
12 that Lauren and others have brought forward, you know,
13 this chart really just reflect the fact that we have
14 experienced tremendous volatility over the most recent
15 year. However, we did remain relatively stable over a
16 longer period, which is what that solid line shows us.

17 As a result of where the markets have been this
18 year, however, we did record the worst one-year period
19 since the global financial crisis, which again you can see
20 up on the chart. This definitely highlights to us the
21 importance of a long-term perspective while remaining
22 nimble and flexible in the short-term.

23 Next slide, please.

24 --o0o--

25 CHIEF INVESTMENT OFFICER MUSICCO: So this slide

1 here just represents a bit of a deep dive. Again, it's
2 helpful to see the challenges that occurred across almost
3 all segments in the last year. Consistent with the
4 broader markets, as we show here, all of the PERF public
5 markets posted were down. And simply put, we just did not
6 have very much benefit from diversification whatsoever, as
7 you can see in this slide. If we go into each of the
8 segments, just to give a bit of color, public equity
9 results, as we've chatted about today, were mostly driven
10 by contraction and valuation multiples in the market. And
11 the market adjusted multiples downward to reflect, as
12 Lauren just pointed out, this effect of the rising rate
13 interests -- the rising rates and the expectation for
14 those rates to rise as well as the speed with which that
15 those rates were rising.

16 While the growth stocks overall bore the brunt of
17 the downturn in equities, due to their high interest rate
18 sensitivity, generally all investment styles
19 unfortunately, including regions and sectors, all
20 registered negative returns, with the exception of energy
21 stocks. You may be reminded that over 90 percent of
22 our -- of PERS portfolio is index oriented. So
23 unfortunately, we cannot be spared the brunt of the broad
24 equity downturn that we experienced in 2022. Although we
25 did have -- we did experience positive returns relative to

1 our policy benchmark

2 In general, active strategies overall
3 outperformed their benchmark during the calendar year,
4 although their overall absolute returns were negative in
5 line with the broader market as we just chatted about.
6 And we'll talk in closed session a little bit more about
7 our strategies around active strategies.

8 The impact of the active performance was limited
9 by the fact that our active book however is only 8 percent
10 of our portfolio. So again, this is an area for us to
11 continue to think about pushing more into as we -- as we
12 look forward in our investment strategy.

13 Fixed income, you'll see, as an asset class, was
14 hurt by the long duration nature of the portfolio. With
15 inflation impacts of the pandemic and the Russia-Ukraine
16 conflict, 10-year treasuries rose nearly two and a half
17 percent during 2022. This resulted in large absolute
18 losses in our longest duration assets, which are the U.S.
19 Treasuries and investment grade corporate holdings.

20 This shortage duration assets, high yield, and
21 mortgage backed securities had great than 10 percent
22 absolute return drops. The income asset class has strong
23 long-term relative returns, but lagged in the most recent
24 year given again the current defensive posture of the
25 portfolio, especially in investment grade. Given the

1 large increases in central bank interest rates, our
2 anticipation is that this will ultimately impact risk
3 assets like corporate bonds. That has not been the case
4 so far.

5 And moving on to real assets, we had the benefit
6 of hearing from the consultants, but I'll reiterate a few
7 ideas here. Cap rates, as we talked about in previous
8 slides, have increased over 100 basis points in 2022 and
9 are forecasted to increase even more, which is going to
10 have real impact on valuations. In general, higher
11 interest rates, broader economic uncertainty and
12 recessionary fields have -- fears have really stalled the
13 markets, which is continuing to put this downward pressure
14 on our real asset values and returns. As we talked about,
15 leverage does play a significant role in real assets, and
16 refinancing has become more costly, and more challenged
17 sectors like office and malls quite difficult, as we
18 talked about.

19 Infrastructure sectors such as renewables are
20 benefiting from structural tailwinds. Utilities and other
21 highly concern -- highly contracted assets with essential
22 services are also likely to hold up a bit better. Most
23 regulated infrastructure assets are benefiting from the
24 increase in inflation and interest rates, so there's a bit
25 of a bright light there.

1 Private debt, as you know, it's a newer strategy
2 for us. One of the observations we've had is that private
3 equity sponsors are gravitating more and more to private
4 debt. We're certainly going to see that and we've been
5 feeling that over -- through the news and over the weekend
6 with the news of SVB. But I think, in general, this is
7 another area of opportunity, which was a question we had
8 earlier around where different areas of opportunity are
9 being presented with current market dynamics.

10 Private equity, this came up a little bit with
11 the question around dry powder. What we have seen is this
12 higher cost of debt has slightly curtailed the abilities
13 of the GPs to drive returns through financial engineering.
14 And so we're thinking about that as we think about where
15 will the valuation of these assets go. Again, as we've
16 chatted about in the past, the valuation lag that you have
17 with the private market assets, because we use public
18 market benchmarks, is something that we are paying close
19 attention to.

20 If we could flip to the next slide, please.

21 --o0o--

22 CHIEF INVESTMENT OFFICER MUSICCO: This slide
23 just helps to give context for where the one-year total
24 return contributions are coming from within the policy
25 benchmark. And so as you'll see during this very rough

1 volatile ride of 2022, the PERF NAV dropped more than \$50
2 billion. Most of this change in value is driven by the
3 beta or the asset allocation, which is reflected in the
4 Total Fund Policy benchmark, which returned negative 12.6
5 percent.

6 Stocks and bonds account for more than 70 percent
7 of the PERF value, and both experienced losses as we've
8 just described in previous slides for '22. The public
9 equity benchmark returned negative 16 percent and the
10 fixed income benchmark returned negative 18 and a half
11 percent. As we said, diversification really did not help.
12 We didn't not get the -- see the benefits of
13 diversification.

14 The real assets benchmark, which we chatted about
15 early, returned almost 21 percent and offset some of the
16 losses. And additionally, portfolio management and
17 implementation contributed about 6.4 billion in value-add,
18 bringing the PERF total return to the negative 11.2
19 percent for the year. We'll remind everyone that this is
20 a relatively short period of time to evaluate returns.
21 But the unusual market conditions, we thought it was
22 really appropriate for us to take a look at what that
23 one-year -- what happened in the markets during this
24 one-year period.

25 So we flip the slide to the next page, please --

1 --o0o--

2 CHIEF INVESTMENT OFFICER MUSICCO: -- where we
3 can focus on decomposing the impact from our portfolio
4 management and implementation over a five-year period,
5 which is a -- is a more appropriate period to take a look
6 at.

7 Relative to our benchmark, the PERF outperformed
8 by 157 basis points in 2022, and 37 basis points for the
9 five-year period. As we've been pointing out, the largest
10 contribution for this outperformance has certainly been
11 coming from private equity with a significant portion
12 coming from the most recent one-year period. But again, I
13 caution the Board that we will see movement in those
14 valuations, given the lag in the private equity
15 valuations.

16 This brings our cumulative five-year value-add to
17 round \$9.7 billion. And over time, we're going to start
18 talking a lot more about value-add, and that's one of the
19 education pieces that we will be bringing forward during
20 our Board off-site, where we'll talk more about risk
21 budgets and thinking about value-add dollars as opposed to
22 just speaking about relative performance, if you will.

23 It's important to note that even over a
24 relatively longer five-year period that these value-add
25 numbers can really fluctuate rapidly. So again, I think

1 it's an important education piece. And going forward, we
2 expect to be increasing our focus, because of what we
3 outlined today on active management and in particular in
4 those -- in the private market space.

5 And again, with the announcement of having the
6 opportunity to onboard a Deputy Investment Officer for
7 private markets, my hope is that in short order, you'll
8 start to see us having a lot more interesting activity in
9 more cost effective ways across the private market space.

10 Maybe just briefly shifting to allocation
11 changes, and Dan will get into this a bit in his
12 presentation, but to closeout. In 2022, it's -- next
13 slide, please.

14 --o0o--

15 CHIEF INVESTMENT OFFICER MUSICCO: In 2022, we
16 made significant progress towards shifting the portfolio
17 to the -- towards the new long-term strategic asset
18 allocation that we rolled out as of July 1st last year.
19 The public markets team - I thought this was an
20 interesting stat - they transacted over \$90 billion to
21 better position and diversify the portfolio.

22 We added new -- two new segments, emerging
23 sovereigns and private debt and we began to introduce
24 leverage as a tool of strategic allocation, which was
25 allowing us to incrementally reduce or reliance on

1 equities as the primary engine of risk and return.

2 Overall, we did see a significant increase in our
3 private asset allocations. And a lot of the activity that
4 happened in the private asset side of things was moving
5 more towards co-investing, which offers a better overall
6 cost advantage.

7 Next page, please.

8 --o0o--

9 CHIEF INVESTMENT OFFICER MUSICCO: This is just
10 to help us understand again the drivers of the net asset
11 value. And while some of the increase in the privates,
12 the denominator effect that we referred to earlier was due
13 to this rapid drawdown in public markets. We are
14 continuing to deploy, and I know it is often difficult to
15 access the opportunities in private markets, but I
16 actually feel we're in a very good position at CalPERS
17 right now with respect to our allocation, unlike many
18 other large institutions that are frankly at their
19 allocation caps, if you will, we continue to be able to
20 provide dry powder to the market if and when those
21 opportunities present themselves. And that's a -- that
22 would be relevant across private equity, private debt,
23 infrastructure, and real estate. So I'm feeling very good
24 about that. Overall, we contributed just over 30 billion
25 gross into private programs or 16 billion net of

1 deployments when we take out distributions.

2 Next slide, please.

3 --o0o--

4 CHIEF INVESTMENT OFFICER MUSICCO: We'll just
5 closeout maybe on a few comments on risk in the program.

6 As we've discussed previously, equities, and more
7 broadly our assets, are sensitive to growth, which remains
8 the dominant risk in our portfolio, so equities and
9 equities that are sensitive to growth. This chart is --
10 we've shown this before, but it basically is a rough
11 simulation of our current allocation through history.

12 It is a sobering reminder that being a long-term
13 investor can entail significant periods of pain, which is
14 what is demonstrated on the chart, but it also highlights
15 that PERF's risk is still very closely tied to the equity
16 markets. So this is an opportunity for us. Everything
17 that we can do to innovate in active management to deploy
18 into private market opportunities and to stay on top of
19 our strategic asset allocation is a huge area of focus for
20 us, because what we're -- what the messaging is today is
21 it's not just about returns, but it's also equally
22 important around managing the risk by adding diversifying
23 returns sources.

24 And that's what you would have seen starting to
25 come through with our strategic asset allocation and why

1 we're really pushing a lot of our focus into deploying
2 into some of the new segments and more into private
3 markets. So that concludes my remarks. I thought those
4 were some of the more pertinent graphs to tease out of the
5 trust level review that you received, but we've put a lot
6 of content in there, and so more than happy to address any
7 questions that you might have from the report itself.

8 CHAIRPERSON MILLER: Okay. Thank you very much.
9 Really comprehensive great reports. I really appreciate
10 the economic updates and everything. And so that brings
11 us to Director Pacheco.

12 COMMITTEE MEMBER PACHECO: Thank you, Nicole.

13 CHAIRPERSON MILLER: Wait. One second.

14 COMMITTEE MEMBER PACHECO: Sorry.

15 CHAIRPERSON MILLER: There you go.

16 COMMITTEE MEMBER PACHECO: Again, this is -- this
17 technology is incredible.

18 Thank you very much for your narrative. I really
19 appreciate this new approach just telling the story. I
20 think it's a great way for the -- for the -- for our
21 members to really understand our material in such a --
22 kind of almost a story-like narrative. And I think I -- I
23 just want to compliment you and your team on doing that.

24 So my question is regarding the -- actually, the
25 actionable tracking error. I noticed that in our policy

1 limits are less than 1 -- 1.0. And currently, we're at
2 0.10. And there seems to be some -- you know, from what I
3 can tell, there seems to be a lot of opportunity there for
4 additional active management. I was just wondering if you
5 could elaborate more on that and give us some highlights
6 on how that could work. Thank you.

7 CHIEF INVESTMENT OFFICER MUSICCO: Absolutely.
8 Thank you.

9 First of all, thank you for the recognition. And
10 it's -- I really have to pass it on to the team. You
11 know, as we keep using this push for innovation as well as
12 resiliency, this body of work is absolutely a reflection
13 of the team really owning and wanting to demonstrate that
14 this spirit, this culture of innovation is alive and well.
15 And so it was a real collaborative effort across multiple
16 teams. And so I'm really proud of the team. So thank
17 you. We appreciate the feedback.

18 COMMITTEE MEMBER PACHECO: You're welcome.

19 CHIEF INVESTMENT OFFICER MUSICCO: As far as your
20 observations on tracking error for the piece that we have
21 control of, you're absolutely right to observe that
22 there's a lot of room there for us to take on more active
23 management.

24 And again, I will keep going back to it, but some
25 of the nine business initiatives that we've taken on for

1 this fiscal year that we've been working on, a number of
2 them are precisely to start building this culture of
3 innovation, which leads to building a culture of being
4 comfortable with taking active risk that will -- that will
5 return great risk-adjusted returns.

6 And I'm excited to see that even though it's a
7 very short period of time, we are starting to see that
8 culture seep through and we are starting to see it
9 manifest itself in the -- in activities like the teams
10 seeking out proactively who some of the best active
11 managers are out there. Simiso and team have been doing a
12 tremendous job at thinking about how could we get more
13 exposure to active managers. As an example, our GFI team,
14 our fixed income team are doing a lot more on the active
15 management side. We have a ways to go. I think part of
16 it is just frankly culture.

17 If you look at the history, we've taken very
18 little active risk. A lot of that is because we've kind
19 of been built around being beta investors for the most
20 part. But I'm starting to see great green shoots of
21 cultural change around that. Our private market program,
22 while not reflective in the tracking error number that you
23 refer to, because that's -- it's track different, we're
24 seeing a tremendous roll up the sleeves, innovative
25 spirit, if you will, across all of the private markets.

1 And that's where you'll start to see a lot more active
2 management. We're taking many more calls, if you will,
3 and doing a lot more homework on co-investing.

4 COMMITTEE MEMBER PACHECO: Um-hmm.

5 CHIEF INVESTMENT OFFICER MUSICCO: And so it's
6 not just on the public market side that you will see the
7 10 bps hopefully start to trade up -- or trend up. You
8 will start to see a lot more active management within our
9 private markets program too. And frankly, it's just
10 required in order for us to hit the return thresholds that
11 we're seeking.

12 COMMITTEE MEMBER PACHECO: Thank you. Thank you,
13 Nicole, for that. I just want to elaborate on talking
14 about metrics and understanding tools. I also, when I was
15 reading this material, I noticed that there's no
16 equivalent quantitative metrics for private -- for the
17 private markets, because I guess there's inherited
18 limitations in modeling, measuring, and benchmarking. Are
19 there -- are there tools out there that we could utilize
20 or just -- or something? I mean, I'm just trying to
21 understand how we could measure these -- this -- these
22 active measurements in that -- in that space.

23 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. It's --
24 it really is an industry-wide dilemma. No one has come up
25 with the perfect mouse trap to -- for creating benchmarks

1 for private equity programs different than what we're all
2 grappling with. We use public proxies. But that said, it
3 doesn't mean we can't sharpen our pencils more and be --
4 get more in the weeds. Once we're able to have a real
5 line of sight into the underlying portfolio of companies
6 of each of our GPs, once we're able to collect that data,
7 we can really take a deeper look at what the proxies are
8 that we're using and get more sophisticated.

9 The tool we're using -- the approach we use today
10 is no different than the vast majority of the industry.

11 COMMITTEE MEMBER PACHECO: Right.

12 CHIEF INVESTMENT OFFICER MUSICCO: But as our
13 data and tech strategy, which is one of our nine business
14 objectives --

15 COMMITTEE MEMBER PACHECO: Um-hmm.

16 CHIEF INVESTMENT OFFICER MUSICCO: -- once our
17 data and tech strategy is up and running, part of it is
18 that this knowledge can be quite powerful. It will help
19 us think through are we benchmarking appropriately? It
20 will help us get better line of sight into the underlying
21 portfolios.

22 COMMITTEE MEMBER PACHECO: Excellent. Well,
23 thank you very much for your comments. Appreciate it
24 very, very much.

25 CHIEF INVESTMENT OFFICER MUSICCO: Thank you.

1 CHAIRPERSON MILLER: Okay. Next, we have Frank
2 Ruffino.

3 ACTING COMMITTEE MEMBER RUFFINO: Thank you, Mr.
4 Chair. I'm going to start off with a quick comment on --
5 obviously, the investment team, you highlighted those
6 several key initiative under innovation and resiliency on
7 page 18. Progress on several key initiative. I just
8 wanted to draw the attention and repeat the second one,
9 and not necessarily one or second, but it's the second
10 bullet point, which the Treasurer in particular is
11 enthusiastic and happy about this particular initiative,
12 which you're committing 1 billion in support of sitting
13 small emerging and diverse private equity firms. So for
14 those of you who are listening or those of you in the
15 audience women, women of color, this is a call for you.
16 How are you going to reach out to see if we can maximize
17 and recruit these diverse private equity firms?

18 CHIEF INVESTMENT OFFICER MUSICCO: Thank you for
19 the question and for highlighting it, because it's an
20 initiative that we're all extremely proud of and also ties
21 into this idea of we're trying to create our own culture
22 of innovation, our own culture of diversity, understanding
23 or own unconscious biases, et cetera.

24 And so to answer your question how are we going
25 to find these emerging managers, the first step that we

1 took was to acknowledge that investing in emerging
2 managers for return for the appropriate risk-adjusted
3 return is not something we think you need to do off the
4 side of your desk or not something we think you should do
5 just off the side of your desk. These are often more
6 complex diligence processes. These are often smaller,
7 newer managers that don't have track records. Maybe they
8 have untraditional track records. Maybe they don't even
9 have track records. Maybe they've been spun out of larger
10 groups, but have been real rising stars within their
11 organization and are -- have come to market for their
12 turn, their kick at the can of becoming managers.

13 And so for that reason, we said if this -- if we
14 are out to create the best performing, emerging, diverse
15 manager program that we can, we want to bring on the best
16 partners we can to help get us -- get this done. And so
17 in our case, the billion dollars today is basically split
18 between two strategic partners, one being TPG, the other
19 being Grosvenor.

20 And each of those partners while taking a
21 slightly different approach, if you will, to seeding and
22 finding those emerging managers, we said to them it's not
23 enough for you to build us great performing portfolios.
24 We need to do more for the industry. We need to do more
25 to get this flywheel of opportunity going. And what do I

1 mean by that?

2 It's everything from saying, well, we've seeded
3 the capital. We also want to see mentoring programs. We
4 want to see almost like best-in-class bootcamps, if you
5 will, created specifically for these emerging managers.
6 We want to see these emerging managers. If they're
7 software investors, we want them teamed up with your
8 best-in-case software deal teams, so that there's this
9 knowledge transfer. And by the way, in doing so, we're
10 also going to layer in our own CalPERS staff to be part of
11 the pro -- be in their kitchen, if you will, learning and
12 growing.

13 And so we have this whole initiative that's
14 intended to be more than just -- and by the way, this is a
15 baseline. They must be the best performing, best
16 risk-adjusted investment opportunities. But addition
17 to -- in addition to that, it's for knowledge transfer,
18 it's for growing the industry, it's for mentoring. And so
19 on that note, we've added one additional layer, which is
20 really creating a separate conference. We have the one
21 conference that we're doing in partnership with CalSTRS,
22 where we will invite not only these potential emerging
23 managers, but also large pools of capital that believe in
24 what we're trying to do and support the mouse trap we're
25 building.

1 We're also going to have a separate and distinct
2 conference, which is more about identifying the up and --
3 up and coming talent that is diverse within our industry,
4 because we recognize that the networking effect, the
5 mentoring effect that many of us have been privileged to
6 have as we grow up through the industry is not necessarily
7 available in the same way to emerging diverse managers.
8 And to some of the questions earlier, diversity in our
9 mind is an extremely wide range. It's not just about
10 gender diversity.

11 And so we're really -- we really wanted a
12 holistic solution here. We wanted to be more than just
13 capital. We wanted to put out the rally cry to other
14 large pools of capital, which we have been doing very
15 proactively to invite others, because we're acknowledging
16 that this is not an easy investment strategy. It's often
17 be very small. It often doesn't move the needle. It
18 requires as much work to invest in small managers as it
19 does, and sometimes more work, small managers versus
20 managers.

21 And so we're trying to create the ecosystem, the
22 convening tool, machine if you will, and hope that others
23 will follow. And we've been really excited for -- you
24 know, delighted frankly to see the traction.

25 ACTING COMMITTEE MEMBER RUFFINO: That's

1 terrific. That's great news. Thank you for outlining,
2 you know, a very ambitious goal, but it's doable. The
3 Treasurer definitely will support you and anything that
4 our -- her office can do to help in this process, she will
5 be there. So thanks again.

6 CHIEF INVESTMENT OFFICER MUSICCO: That's really
7 appreciate. Thank you.

8 CHAIRPERSON MILLER: Yes. Thank you. I don't
9 see any more requests to speak on this item and I don't
10 have any requests from the public to speak on this item,
11 so thank you. I, too, really enjoyed kind of the
12 difference in the style and the presentation. It's much
13 more accessible, but there's still all the data and
14 information backing it up and supporting materials. So
15 I'm -- I really think that it serves certainly me, and,
16 you know, my colleagues and hopefully our stakeholders
17 well. And I really appreciate the change and appreciate
18 the team's thoughtfulness in coming forth with that kind
19 of a, you know, innovation, because we need innovation on,
20 you know, the large scale, and the small scale, and every
21 little bit helps, so that I really appreciated that
22 incremental move forward in terms of the quality and the
23 usefulness of the presentation.

24 And with that, we'll move on to 6E, Portfolio
25 Strategy Update.

1 CHIEF INVESTMENT OFFICER MUSICCO: Great. We'll
2 call up Sterling Gunn to join me up here for this next
3 portion.

4 Thanks, Sterling.

5 BOARD CLERK ANDERSON: Chair Miller, we do -- we
6 do have a public comment on the phone for 6D.

7 CHAIRPERSON MILLER: For what?

8 BOARD CLERK ANDERSON: For 6D.

9 CHAIRPERSON MILLER: For C. Okay.

10 BOARD CLERK ANDERSON: For D.

11 CHAIRPERSON MILLER: For D. Okay. I didn't have
12 it on my list. Okay. Okay. We'll have a -- we do have a
13 public comment. It's a phone caller, so bring them on and
14 they will have their 3 minutes.

15 Hello, caller.

16 MR. RING: Hello. Can you hear me?

17 CHAIRPERSON MILLER: Hello. Yes. Welcome.

18 You'll have three minutes, so identify yourself and then
19 the clock will start for your comments. Thank you.

20 MR. RING: Greetings to all the Committee
21 members. My name is Michael Ring and I work for the
22 Service Employees International Union. Thanks to the
23 Board and the CalPERS staff team for all the work you do
24 to ensure CalPERS participates including thousands of SEIU
25 members receive a secure and dignified retirement.

1 As you go through this trust level review, I
2 wanted to lift up how important it is that CalPERS
3 sustains fiduciary work to integrate workforce risk and
4 opportunity management into its investment projects to
5 ensure benefits to be paid over the long term. CalPERS
6 has a long history of leadership in this area, for
7 example, through its robust real assets workforce risk
8 management program, as expressed in its Responsible
9 Contractor Policy and program, through its corporate
10 governance program's integration of human capital
11 management issues into its proxy voting and proxy
12 engagement work, including to lift of -- especially
13 lifting up the importance of diversity, equity, and
14 inclusion from board rooms, to the work site, to the
15 community.

16 As well as CalPERS leadership in facilitating
17 invest in networking to manage these long-term risks
18 through, for example, the human capital management
19 coalition, where you own Investment Officer, Tamara Sells,
20 services co-chair. And I'd like to recognize specifically
21 the work of Tamara, James Andrus who have guided much of
22 your team's work in this area recently with great skill
23 and efficacy.

24 A recent review of the news cycle detailing the
25 experience of workers makes clear that CalPERS long-term

1 fiduciary interests, sustainable workforce practices can
2 only be protected through these times of proactive
3 intentional approaches. As noted earlier, major news
4 outlets recently reported a prominent private equity firm
5 that children worked -- do dangerous work at one of their
6 portfolio companies. And we are well aware all of us of
7 reports of high profile publicly traded companies
8 completely ignore -- ignoring and violating their workers
9 rights to freedom of speech.

10 As someone who has the opportunity to work with
11 investors and workers every day, I can assure you that the
12 testimony I hear from workers is often very different than
13 the information you receive from companies. In that
14 context, we encourage you to redouble your efforts in this
15 area to, for example, continuing the practice of updating
16 your company engagement and proxy voting approaches on
17 workforce issues as was mentioned in the conversation
18 earlier today, updating your Responsible Contractor Policy
19 for real assets, incorporating workforce standards and
20 practices into your Private Equity Program practices, as
21 was mentioned also earlier today, and ensuring you have
22 accurate data verification processes through which workers
23 can safely verify companies and asset manager reporting of
24 workforce practices.

25 Thank you very much for your time and

1 consideration and all your efforts on behalf CalPERS plan
2 participants.

3 CHAIRPERSON MILLER: Great. Thank you for your
4 comments, Mr. Ring. Appreciate it.

5 And I think that does wrap up 6D. There are no
6 more commenters or callers. So we're on to 6E, Portfolio
7 Strategy Update.

8 (Thereupon a slide presentation).

9 MANAGING INVESTMENT DIRECTOR GUNN: I guess
10 that's me. Sterling Gunn.

11 CHAIRPERSON MILLER: I guess so.

12 MANAGING INVESTMENT DIRECTOR GUNN: And I lead
13 the total fund portfolio management group here at CalPERS.
14 So good afternoon. Thank you for having me here.

15 And I'll just start by observing that a number of
16 the things that I wanted to discuss today as part of the
17 portfolio strategy, you've already touched on, either
18 through the presentations or through your questions. So
19 that's good news. That means that we are aware about
20 these things. And you'll see through the presentation
21 actually in living through the last few days, it's just
22 yet another example of the kind of uncertainty that we
23 live with and try to manage through every day.

24 So I will touch on a couple of highlights, key
25 features of our portfolio strategy. The first is the

1 analogy. And I actually think it's quite appropriate in
2 terms of how we have to approach dealing with the equity
3 risk premium. It's not something that shows up every day.
4 It's not something that shows up even reliably every day.
5 It's something that you believe you can over time collect
6 and be rewarded for wearing equity risk if you persist and
7 stay with it long enough. So just as farmer, every year,
8 you go out there, you know, you sow the crops. At the end
9 of the year, you harvest the crops. But in any given
10 year, there are a lot of things beyond your control that
11 will affect that actual quality of the outcome.

12 So you will do the same thing pretty much every
13 year, not knowing how you will be rewarded in any given
14 year. Nonetheless, you persist. And the reason you
15 persist is over the long run, you believe this will work
16 out. I just wanted to highlight that. That -- that's to
17 me a very important analogy. It actually works very well
18 for me. It's something I was sort of raised on in this
19 industry, that that harvesting is an important recognition
20 of trying to collect the equity risk premium.

21 So if I move on to the next page.

22 --o0o--

23 MANAGING INVESTMENT DIRECTOR GUNN: Here I just
24 wanted to talk a little bit about uncertainty. If we
25 think about coming into 2022, what were we thinking about?

1 We were thinking about the fact that the economies are
2 likely to get a little bit slower. Central bank policy
3 would be tightening a little bit. That the pandemic,
4 which we were in the midst of, would probably continue to
5 affect changes in behavior. And that, as we had talked
6 about during the ALM, there would be a transition in
7 regimes. So some of you that were here over the last
8 couple of years, we had talked about how in the near term
9 returns would be quite different than they would be in the
10 long term and they'd need maybe to change the portfolio
11 over time. We didn't know when that change would happen.
12 I don't think any of us expected it would have happened as
13 quickly as it did, but it's been happening.

14 So if we think about the expectations at the
15 beginning of the year and what actually happened through
16 the year, a number of things happened that we did not
17 expect. There's a war in the Ukraine, for example. And
18 higher inflation, and as a result the central bank
19 taking -- tightened much more quickly than anyone would
20 have thought, and, in fact, as we heard at historic rates.
21 So again, not what we expected, but it's what we got. The
22 last week is another example, just almost out of the blue,
23 where we have a bank failure. No one was really even
24 talking about that say a week ago, and now it's throughout
25 all the headlines.

1 So if we think about going into say the coming
2 year, how -- what are we thinking about now? Well, we're
3 still thinking about inflation and we're still thinking
4 about rates. We're thinking about economic growth
5 slowing. We're thinking about potential for a recession
6 at some time - don't know when, but a recession is
7 probably coming - the macroeconomic volatility, a lot of
8 uncertainty, inflation, more volatile perhaps than we're
9 used to.

10 So all of that sort of suggests that we're
11 getting in -- still in a regime of higher uncertainty.
12 And that leads me to the next page.

13 --o0o--

14 MANAGING INVESTMENT DIRECTOR GUNN: So if we look
15 at the next page, we survey external managers and ask them
16 for their opinions on ten-year returns -- project returns.
17 And I hesitate to call them expected returns for the very
18 reason that they are uncertain. If you look at this page,
19 you will see -- and I'll just draw your attention to the
20 left-hand side. It happens to be private equity. I'm not
21 picking on private equity, but just to illustrate here.

22 The yellow rectangle is the range of estimates of
23 projected 10-year returns for private equity from external
24 managers. You see that varies from 4 until about 10
25 percent. That's a wide range of outcomes. All these

1 people are experts and this is what they're saying to us.
2 The other interesting feature is when we asked the same
3 people a year and a half ago, we had the blue rectangle.
4 And there, you see the range is from about 3 to about 13
5 percent.

6 So it's not that the uncertainty is just a unique
7 particular feature at a particular point in time, there's
8 almost always a lot of uncertainty and expert opinion.
9 Expert opinion will be diverse on these matters. So I
10 wanted to call out here that the way uncertainty plays
11 out, you know, if you think about statistics, you'll hear,
12 well, the average will be five plus or minus 3 percent.

13 The way the uncertainty is playing out here
14 though is we aren't even certain of the average outcome.
15 All right, so the average here for private equity is
16 somewhere between 4 and 10 percent plus or minus whatever.
17 So the uncertainty introduces a lot of additional
18 variability in outcomes.

19 So I just wanted to highlight that uncertainty is
20 something that we certainly think about. We do that
21 through our modeling. We don't just anchor on a
22 particular point. We don't just say, well, private equity
23 returns are going to be 8 percent for the next 10 years.
24 That's not how we operate. We ask ourselves what if it's
25 not 8 percent? What if it's something different? Do we

1 still have an allocation that makes sense? So we try to
2 address uncertainty by considering a portfolio in
3 different contexts and ask does the portfolio still work
4 reasonably well?

5 That doesn't mean that we can anticipate
6 everything that can happen, far from it, but it does give
7 us a sense of what we might have to do in the future if we
8 have to respond to changes that are material. So I wanted
9 to speak to that.

10 So let's just speak a little bit then about
11 equity returns, and that's on the next page.

12 --o0o--

13 MANAGING INVESTMENT DIRECTOR GUNN: So there's
14 two exhibits here. And this came up in -- earlier today
15 as well. I'll draw your attention to the left-hand side,
16 first. The left-hand side has about 120 years of equity
17 risk premia returns. Now, the equity risk premium is the
18 difference between equity returns and the bond return. If
19 equities outperform bonds, it's positive. If it under --
20 equity has underperformed bonds, it's negative. What we
21 have done here is looked at a 10-year rolling window and
22 said okay, over any particular 10 years, did equities
23 outperform or underperform bonds? So if you look here,
24 wherever it's blue, that graph tells you that equities
25 outperformed bonds over that 10-year period.

1 Where it's orange -- I think that color is
2 orange. My color isn't always great. You can see that --
3 those are periods where equities underperformed bonds for
4 10 years.

5 So I bring this to our attention, because we
6 consider ourselves long-term investors. What this message
7 tells us though is that even over a 10-year period, bonds
8 may still outperform equities. So that's important to
9 keep in mind. If you look at this chart, historically
10 that was about 10 percent of the time. So it's important
11 to be aware of. So 10 years feels like a long time, but
12 if you're harvesting that equity risk premium, you might
13 have to be in there for a lot longer than 10 years
14 sometimes in order to make it work. So I just want people
15 to be cognizant of that kind of relationship.

16 On the right-hand side, we have daily returns in
17 the S&P going back to 1988. And here, the story I wanted
18 to illustrate is a little bit different. I tried to color
19 code two aspects. So if you have the daily returns there,
20 90 percent of the days are colored in gray. Those are
21 just sort of kind of normal days. One percent are colored
22 in blue. Those are the days where we had extremely
23 positive returns, the top sort of percentile of returns.
24 And then color coded in orange is the bottom percentile,
25 those days where we had extreme losses in the markets on a

1 daily basis.

2 The key point here though is if you look at this,
3 you'll see they come in bunches. You can see that there's
4 a day, you know, a really terrible return followed by a
5 day with a really good return. So the message here really
6 though is it's quite challenging then to try to avoid the
7 losses because you risk losing the gains. So again going
8 back to that harvesting strategy, it's really, really
9 important to be steady and to stay with it, knowing that
10 at any given moment, it can be a rough ride, but that it's
11 important to be there, so you don't miss out on the upside
12 just because we tried to dodge the downside.

13 So the overall thing here is just to try to
14 reinforce that harvesting strategy. If you believe
15 equities will give you a reward for the equity type risks
16 over the long run, then it's important to kind of be
17 there, be there in steady way. The left-hand side tells
18 us it can be a bumpy road. The right-hand side tells us,
19 it's really very difficult to time the market, so it's
20 better maybe, unless you think you're exceptionally
21 skillful to be in that market and just be consistent. So
22 those are the key messages on this page.

23 Go to the next page, please.

24 --o0o--

25 MANAGING INVESTMENT DIRECTOR GUNN: Now, you saw

1 this earlier. Lauren showed this chart, so I won't
2 belabor it too much, other than it highlights how unusual
3 last year was, that both bonds and equities had a negative
4 return. If you look at the rest of the chart, the top
5 right-hand corner, bonds and equities have positive
6 returns. That's a nice place to be. The other two
7 quadrants, top left and bottom right, one is negative, one
8 is positive. And that's the kind of think you would like
9 from a diversified portfolio.

10 What this chart really shows us is that with the
11 exception of four years, the world kind of works the way
12 we would like it to work in a diversified kind of way.
13 That doesn't guarantee that next year we'll have a
14 diversified portfolio, but the odds are pretty much in our
15 favor depending on the circumstances. And the world is
16 getting to slightly more normal place than it was even a
17 year and a half ago. So I won't belabor that anymore.

18 --o0o--

19 MANAGING INVESTMENT DIRECTOR GUNN: So the next
20 page is a little bit more about our specific portfolio in
21 private assets. We've talked quite a bit about private
22 assets today. There were some very good questions about
23 them. And here we just wanted to talk about a bit of our
24 history. Later on in closed, we'll talk a little bit
25 about what we think we're doing for the future and how

1 that's going to work.

2 I just wanted to call out, if we look at the top
3 left exhibit, first of all, and that's just the undrawn
4 commitments. And I think the -- many of the Board members
5 here have already heard this story from other speaks in
6 the past, but after the GFC, for whatever reason, we
7 stopped committing to the private asset classes for the
8 moment or at least slowed down. And so the undrawn
9 commitments were quite low for almost a decade. And it's
10 only in the last three or four years where we've started
11 to increase our commitments again to private equity.

12 And the reason I mentioned that is some of the
13 messaging in the past was, we missed out, right? After
14 the GFC, there were opportunities and we missed out. We
15 were being asking earlier today about opportunities, and
16 yes, they were -- the world will present opportunities,
17 and the important thing is to stay in the game and be
18 aware, so that was the first point.

19 The NAV, the middle part of the second exhibit
20 here, that's the net asset value. Again, all these I've
21 mentioned in dollars by the way. And I'll get onto that
22 in a second why I've chosen to do it that way, where
23 because of the way we committed for that period of time,
24 you didn't really see a significant increases in the NAV
25 of the private assets over that decade, but you have now

1 seen the more recent bump in that, again, as we started
2 committing to these assets.

3 Then the last point down there is the dollar
4 value-add. And again, you sort you see a lost decade, the
5 consequence of the decisions that were made over an
6 extended period of time. And from about 2010, you'll
7 notice that blue line is basically horizontal. We're
8 plotting the cumulative value-add, which basically says it
9 didn't change a whole lot. It bumped up and down, but
10 didn't change a whole lot. You'll see recently, there's a
11 bit of an uptick. And if we talk about, you know, the new
12 strategy, it's our belief that that uptick is hopefully
13 the new trend that we're trying to set here.

14 Now, the one reason I mentioned dollars is
15 everything that happens in this space is done in dollars.
16 You make commitments to external managers in dollars. We
17 don't give an external manager a percentage of our
18 portfolio. That's an internal thing. Managers get
19 dollars. And this is going to take us to the next page
20 when we look at how the -- this in -- the allocations here
21 interact with the rest of the portfolio, but it's
22 important to keep that in mind. It's about the dollars.
23 We don't rebalance. It's not like in public markets where
24 we buy and sell assets to rebalance the portfolio. Once
25 you're into private assets, you would like to stay there

1 as a commitment, and let them play out.

2 So if we go to the next slide.

3 --o0o--

4 MANAGING INVESTMENT DIRECTOR GUNN: Here, I just
5 want to talk briefly about active strategies. We talk
6 about tracking error. We talk about a lot of things here.
7 I just want to take a moment to sort of explain similar to
8 how I think about it and how I think we think about it in
9 the Investment Office. So to explain this graph, if you
10 look on the left-hand side it's a starting point. That's
11 the point where we make a decision to engage in an active
12 strategy.

13 So at the beginning, there was zero value-add.
14 And then when we describe an active strategy, we have an
15 expectation about the return, the excess return, or the
16 dollar value-add. We might think, well, we expect it on
17 average to add \$100 a year for example. But we also know
18 that it will vary one year to the next. Nicole mentioned
19 that just even for the privates. So although we might
20 expect \$50 per year on average, it might be plus or minus
21 100. So we just have to be aware of that.

22 So this chart shows over time the accumu -- you
23 know, the style as the accumulation on the one hand of
24 what the expected outcome will be, which is that orange
25 line. So you see a steady increase. That's what we

1 expect in terms of the excess value-add, but also those
2 two gray lines, which create sort of a cone. We refer to
3 this actually as a cone chart. So this is sort of the
4 range of outcome. It's not quite a confidence interval,
5 because of uncertainty we can't tie specific probabilities
6 to it. But in this example, you do see that because
7 there's a slight tilt to the cone, over time the
8 probability of a loss tends to decrease and that's just
9 because of the accumulate -- the expected accumulation of
10 value-add over time. So though the volatility if the plus
11 or minus part stays the same, over time less and less
12 likely that you're going to lose money under that
13 strategy.

14 So with that, I'm going to have one more page,
15 just to speak briefly about liquidity and staying on
16 strategy and then I know in closed, we'll talk about some
17 of the details.

18 --o0o--

19 MANAGING INVESTMENT DIRECTOR GUNN: And the
20 important thing about liquidity that came up earlier, that
21 is the fundamental constraint for the portfolio. As much
22 as we may like private assets, as much as we may like
23 active strategies, we have to convince ourselves that we
24 can -- we still have sufficient liquidity to make sure we
25 can meet out obligations. So if you think about that as

1 sort of the concept of staying on strategy. If we make
2 commitments, make sure we manage the portfolio, so we can
3 honor those commitments even in stressful environments.
4 And earlier you heard a number of people say we are still
5 confident that we have sufficient liquidity today to
6 continue the strategy that we have started to execute with
7 the strategic asset allocation and some of the active
8 strategies that we'll be talking about later on.

9 So with, I'm just -- I'll stop here knowing that
10 I'll be speaking again later on.

11 CHAIRPERSON MILLER: Okay. Thank you very much.
12 I appreciate that report and all the detail and I have
13 Director Pacheco.

14 COMMITTEE MEMBER PACHECO: Thank you, Mr. Gunn,
15 for the presentation. Again, I really appreciate your
16 presentation and the visuals that you utilized in it.

17 So my question is is back on page number 2, the
18 presentation you highlight the 50 basis point sustained
19 excess return. Is this level achievable for CalPERS and
20 what level and types of risk would you need to be taken to
21 achieve it?

22 Thank you.

23 MANAGING INVESTMENT DIRECTOR GUNN: Thank you for
24 that question and that's a very hard question frankly.

25 COMMITTEE MEMBER PACHECO: Yeah.

1 MANAGING INVESTMENT DIRECTOR GUNN: I mean, if
2 you at our history, it's not really something that's been
3 in our history.

4 COMMITTEE MEMBER PACHECO: Yeah.

5 MANAGING INVESTMENT DIRECTOR GUNN: And I think
6 that's part of the exercise that we will have over the
7 next year during the business planning and so on is to
8 make a more detailed answer to your question about what it
9 would take to aspire to doing something like this. So I'd
10 hesitate to give an answer right now without, you know,
11 being able to get into those details and we need to
12 develop those for you.

13 COMMITTEE MEMBER PACHECO: Absolutely. No, I
14 just -- I just wanted to have your understanding of that.
15 Thank you very much.

16 CHAIRPERSON MILLER: Okay. I'm not seeing any
17 other questions from board members. I do believe we have
18 a public comment for 6E. Mr. Al Darby.

19 MR. DARBY: No, final public comment.

20 CHAIRPERSON MILLER: Oh, okay, at the end. Okay.
21 The same thing with F, you just want to do them all at the
22 end, Al?

23 You just want to make all your comments at the
24 end?

25 MR. DARBY: Yeah.

1 CHAIRPERSON MILLER: Okay. Thanks.

2 Okay. Well, with that, I thank you and the team
3 and really appreciate all the information. And we'll move
4 on to our private debt investment update.

5 (Thereupon a slide presentation).

6 CHIEF INVESTMENT OFFICER MUSICCO: Great. Thank
7 yo. So we'll invite Jean up. And again, just to give the
8 presentation context, the Board has had the opportunity to
9 get frequent updates on what we're doing in private
10 equity. And so in the spirit of trying to keep up with
11 similar sharing, we will rotate through each of our
12 investment strategies in the way that we have been
13 presenting private equity. And so we're going to kick --
14 we kicked off with portfolio strategy and now private
15 debt. And so next Board meeting, you'll get two more, and
16 two more, and two more. And we'll just keep this as an
17 ongoing approach to keeping you up to speed with what
18 we're doing.

19 CHAIRPERSON MILLER: Very good.

20 CHIEF INVESTMENT OFFICER MUSICCO: So over to
21 Jean

22 MANAGING INVESTMENT DIRECTOR HSU: Okay. Hi. My
23 name is Jean Hsu of Private Equity. Staff here in
24 CalPERS -- Private Debt, Private Debt, sorry.

25 (Laughter).

1 MANAGING INVESTMENT DIRECTOR HSU: Sorry, Anton.
2 (Laughter).

3 MANAGING INVESTMENT DIRECTOR HSU: Okay. Private
4 debt is the newest asset allocation segment in the asset
5 allocation. I'm very honored that, you know, Nicole
6 picked us to become the guinea pig for everybody to have
7 some fun here.

8 (Laughter).

9 MANAGING INVESTMENT DIRECTOR HSU: So let's -- so
10 this is a program review. So at the end of the program
11 review, I'm going to bring Wilshire here who is our
12 consultant and then you will hear the view from them.

13 So today, I'm going to talk about, you know, some
14 overview and then we talk about the benefits of the
15 private debt, the risk of the private debt, and then we
16 will then talk about is the current status in market. And
17 then at the end, we talk about very important topic is it
18 how do we -- you know, not being the asset owner, but
19 still able to incorporate ESG into our implementation of
20 the strategy.

21 Okay. So let's start with page 3.

22 --o0o--

23 MANAGING INVESTMENT DIRECTOR HSU: Still talking
24 about overview. So private debt is basically harvesting
25 illiquid -- illiquidity premium as well as the premium

1 from, you know, some structure complexity when the
2 situation allows and when the risk reward allows. Okay.
3 And in the activity so far, you know, I think it is
4 very -- we were very lucky that in the past two and a half
5 years, we were able to deploy roughly like 24 billion in
6 commitment and an NAV at 8.9 billion. So we are a little
7 bit ahead of our target in terms of the asset allocation.
8 And I will detail that in the closed session later today.

9 Okay. So let's move to page 5.

10 --o0o--

11 MANAGING INVESTMENT DIRECTOR HSU: So we're
12 talking about a couple benefits of private debt. The very
13 first one is, you know, attractive risk-adjusted returns.
14 So here, you can see in the upper left corner of this
15 chart, you know, private debt is having a higher expected
16 return and then reasonable volatility relative to the rest
17 of the asset classes.

18 Next page, please.

19 --o0o--

20 MANAGING INVESTMENT DIRECTOR HSU: Another
21 benefit is like, okay, we have cash flow profile, which
22 can complement our private equity. So as like most of the
23 debt, you will have coupon incomes, so we will income
24 generating. Your coupons can come back to us as a cash
25 flow injection. So that will provide some liquidity.

1 Okay. Next page, please.

2 --o0o--

3 MANAGING INVESTMENT DIRECTOR HSU: Accounting
4 diversification. This is the benefit of the private asset
5 class. It's the same across private debt, private equity,
6 and in real estate. So because of the like valuation is
7 done like three -- every three months, so you will not see
8 the public market volatility in the private asset class.

9 Okay. Next page.

10 --o0o--

11 MANAGING INVESTMENT DIRECTOR HSU: Another
12 benefit is like we are higher in the capital structure, so
13 if there are problems, the very first one who has to worry
14 about that will be the equities, not me.

15 (Laughter).

16 MANAGING INVESTMENT DIRECTOR HSU: Okay. So that
17 is a very, very good benefit here. Okay. You will see,
18 you know, in -- you know, the very hot topic in -- over
19 the weekend in the prive -- in the -- in the closed
20 session, we can talk more about it. Equities really has
21 to be worried. Debt, you have to think about how much
22 recovery can I get. And then, you know, in what
23 circumstances am I positioned myself? Where in the
24 capital structure that you will get a better recovery?

25 Okay. We'll talk that more in the -- in the

1 closed session.

2 Okay. The next page.

3 --o0o--

4 MANAGING INVESTMENT DIRECTOR HSU: Shorter tenor,
5 so you can be able to make adjustment of your strategy on
6 more of a timely basis. The assets that we hold in a
7 private debt fund -- a private debt fund is more like two
8 to three years. Okay. And you're expected to get your
9 money back into two to three years. The private equity
10 will take much, much longer. So once you invest in the
11 private equity, then you pretty much have to, you know, go
12 and instill in that direction for a while versus private
13 debt is like relatively shorter, so that you can make
14 adjustment a little bit more easily. I'm not saying like
15 it's very easy. No, because, you know, private debt, they
16 can also get extended when the circumstances, you know,
17 requires them to do so, but relatively to private equity a
18 little bit better.

19 Next page.

20 --o0o--

21 MANAGING INVESTMENT DIRECTOR HSU: Strong
22 performance throughout the economic cycle. So if you look
23 at it there's two charts, so we're looking at, you know,
24 in the rising interest rate environment. And then, you
25 know, an event happened to the market bottom. So, on the

1 left-hand side, you know, global financial crisis, we can
2 see in that three years roughly, that three four years,
3 private debt has accumulated 29 percent versus other like,
4 you know, broadly syndicated loans, high yield, and
5 investment grade, the performance is not as great.

6 And at this around in the COVID pandemic again,
7 in this four years -- three, four years 35 percent
8 accumulated return, but the rest of the asset classes in
9 the public market are also return pretty good. But this
10 is because that the Fed is aggressively sprinkling money
11 to the system. So this -- I will say that this is a
12 little bit -- again, that this goes to -- we can talk in
13 the closed session about like how we think like and why we
14 think that the Silicon Valley Bank will have this -- the
15 current dynamic right now.

16 Okay. The next one, please go to page 12.

17 --o0o--

18 MANAGING INVESTMENT DIRECTOR HSU: Okay. Private
19 debt is not all that great. Okay. There a lot of risk
20 associated with this one. Okay. If you think about
21 private date, we are doing things which are not investment
22 grade. Okay. So they are supposed to have risk. They
23 are supposed to have default. It is how you do investment
24 to mitigate the default and how can you do to increase
25 your recovery. So even investment grade bonds that can go

1 to, you know, default, like, you know, this -- again,
2 sorry, the Silicon Valley Bank, they were like a single A
3 triple B rated investment grade. And then they go
4 directly to default, right?

5 So please like remember that when we take risk in
6 order to get to a higher return, you will see that
7 defaults will happen. And then how we will do is that we
8 will do all the things to mitigate the probability of the
9 default as well as the recovery. So right here in this
10 page and on the left-hand side, you will see the private
11 debt -- well, you know, lack of liquidity.

12 Okay. So you cannot sell it. You have to work
13 it through. It's not like the public debt that, okay, if
14 you see something different, you don't like that company
15 that you can sell it. It is not the case in the private.
16 Okay.

17 Less data transparency. Okay. Private debt, a
18 lot of times that you do not like the public market that
19 they will have to, you know, have like very valuable data
20 on statistically based that you can do some simulations on
21 that. Private debt, less so. Okay.

22 Shorter performance history. Majority of the
23 private debt, they are created -- the funds are created
24 after the financial crisis. So they are in very, very
25 benign credit cycle and credit environment. So we try to

1 do our due diligence, like we're trying to look into
2 people, the managers who has like longer history and then
3 preferably before the financial crisis.

4 Okay. The next one is if there is a lot of money
5 chasing this area, which, you know, happened before and
6 then get better, and then we think it may happen again, in
7 that situation, you will see spread compression and then
8 you will see loosening of the underwriting standards.

9 Okay.

10 The next one is about interest rate. Right now,
11 we are in a very, very gray spot that interest rate
12 rising, so that's why you see the private debt performance
13 is so good, because the majority of assets is floating
14 rate bases. So we go as long as the interest rate goes
15 up. Our yield actually goes much, much better. Okay.

16 However, if you remember, like not long ago,
17 couple years ago, everybody was thinking about, you know,
18 if there's going to be negative Fed funds rate, like in
19 Europe, then, in that situation, how do we mitigate that,
20 right, because you don't -- you want -- you rise -- you
21 want the right -- rising of the interest rate, you will
22 write it down to. So what we try to do is that we try to
23 put a floor on our -- on our base rate. For example, you
24 know, if you can, you will put like, you know, 50 basis
25 points on the floor or in the public market we're trying

1 to see if we can put in the semi-public market like the
2 long space that we will put -- like can we put the floor
3 at zero percent. So at least, I'm not getting the
4 negative rate, just some of the European countries that is
5 experiencing.

6 The very last one is manager performance in a
7 downturn will vary significantly. Okay. So the ability
8 to choose a manager that how you underwrite a manager, how
9 you look at then what is their culture, what is their
10 performance, and then what is their strategy? Is it
11 overcrowded or is it there's some space to -- you know, to
12 grow. Those are extremely important.

13 Yeah, so these are the risk. And then, you know,
14 you can see the mitigation on our side. I try to go
15 faster, because I know today is a long day, and then I
16 want to save more time for the closed session that we can
17 have a thorough discussion. Okay.

18 The next page will be page 14.

19 --o0o--

20 MANAGING INVESTMENT DIRECTOR HSU: The asset
21 under management has increased significantly.

22 Next page.

23 --o0o--

24 MANAGING INVESTMENT DIRECTOR HSU: But if you put
25 in a context of where the blue bar is the private equity

1 asset management. So if you can -- you can see like the
2 orange bar is private debt. We maintain a smaller
3 although growing proportion of the private equities
4 financing source. There's still a lot of room to grow.
5 So that's why I think Nicole say that, you know, there is
6 opportunity to grow in here. Okay.

7 The next one I want to go to, let's go to the ESG
8 page, so that would be page 20.

9 --o0o--

10 MANAGING INVESTMENT DIRECTOR HSU: Okay. So we
11 are not the asset owners. It's very hard for us to
12 influence the company or direct the company to do things.
13 And then we try our best not to be the asset owner. So I
14 think that everybody gets this, right? Because when I
15 get -- when I become the asset owner, it means that
16 company goes default. So we really don't want that to
17 happen.

18 But still given that, we're trying to incorporate
19 ESG into our due diligence and into our annual review
20 process. And then, although this is in the very early
21 stages, I think some of the Board members has heard me
22 talk in the off-site that, you know, we have managers
23 they're embedded that ratcheting mechanism to lower
24 interest rate as borrowers meet certain criteria to ensure
25 ongoing ESG engagement.

1 For example, okay, if you get, you know, one,
2 two, three, four, five, then I give you like 5 basis
3 points to 10 basis point lower on your interest rates. So
4 this is encouragement. This is a real monetary reward.
5 This is very similar to that, you know, when we have, you
6 know, CalPERS reward our staff, okay, give them like a
7 cafeteria certificate. Okay. So ours is a little bit
8 bigger. Five basis points in couple hundred million.
9 It's quite a lot in terms of the interest. So we hope
10 that through this that we can help and then engage the
11 company to try to achieve the ESG parameters.

12 Okay. So with that, I'm going to bring up
13 Wilshire as our consultant to talk about the program
14 review.

15 Sorry, do you have questions or do we want to
16 wait?

17 CHAIRPERSON MILLER: Do you want to ask now or do
18 you want to hear from Wilshire?

19 COMMITTEE MEMBER PACHECO: I'll hear from
20 wilshire first.

21 CHAIRPERSON MILLER: Yea, let's hear from
22 Wilshire first then.

23 MS. DEAN: Okay. This is Rose Dean from
24 Wilshire. If you would recall in the previous years, we
25 did the annual review of the Investment Office programs in

1 September meeting as a whole. In light of the changes
2 that Nicole mentioned in terms of bringing updates about
3 the investment program on a regular basis, we are
4 coordinating our annual review of the private debt program
5 at the same time as the update for the private debt that
6 program that Jean gave.

7 So in September, you'll hear our -- the rest of
8 the annual review for the rest of the investment programs
9 as the staff presents their update on those programs. So
10 with respect to the Private Debt Program, just for the
11 benefit of some of the new Board members, this allocation,
12 the five percent allocation was officially made into the
13 private debt allocation six months ago or six months into
14 last year.

15 You'll see that our review melds together.
16 Before that private debt program was officially put in
17 place in the asset allocation, the investments into those
18 private debt positions that are currently in there were
19 already started in the Opportunistic Strategies Program.
20 So the history that we have includes the investments that
21 were committed to within that Opportunistic Strategies
22 Program into these private debt deals.

23 So as Jean mentioned, there's currently 33
24 underlying investments to which over 24 billion has been
25 committed. And then there's investments that have already

1 been made with that commitment. Among that commitment
2 there's about 8.9 billion that's the market value as of
3 the end of 2022.

4 So we'll go through our review of this program
5 highlighting some of our evaluation criteria, which
6 includes the team, in terms of their ability to manage
7 this program, the portfolio construction of the Private
8 Debt Program, how they're implementing according to the
9 policy, and then the performance, of course.

10 So if we can move on to page 5.

11 --o0o--

12 MS. DEAN: So we'll start with the private debt
13 team assessment. This team has been relatively stable
14 even through that opportunistic strategies days, during
15 which Jean was running that program. So the assessment is
16 similar to what we mentioned in our annual review of the
17 Opportunistic Strategies Program last year in the sense
18 that you have a very talented team who has really deep
19 experience in this space. It's really a -- just the
20 numbers speak for themselves. It's a testament to how
21 much they were able to accomplish within that short period
22 of time in terms of that, you know, finding opportunities
23 to commit 24 billion in capital and putting almost 9
24 billion to work.

25 You also see that -- and Bill will talk more

1 about this, how the diversification of the portfolio, the
2 different types of strategies and different managers that
3 we were able to invest in through this program. We
4 mentioned that -- a bit of this during our last review as
5 well, but right now, we're in a different situation than
6 the year before. What do I mean by that is not only we're
7 in a different interest rate environment, up until now,
8 the team has really been focused on committing capital,
9 doing due diligence on managers, and finding these
10 strategies that are appropriate for this portfolio.

11 Now, that we have a significant amount of capital
12 that's been invested in the portfolio and will be invested
13 in the portfolio, there is the additional significant task
14 of doing portfolio management, not just growth of the
15 portfolio and finding new opportunities.

16 From that perspective, and we mentioned this last
17 year too, this team is running on relatively thin
18 resources. If you look at anyone that's looking at the
19 size, and the scale, and the number of strategies, and
20 managers that are in the portfolio, the resources are very
21 thin. So we would note that as a potential improvement to
22 be made in terms of the aspect of the team for this
23 program.

24 Moving on to performance on page 7.

25 --o0o--

1 MS. DEAN: So again a reminder that any thing --
2 any track record we're showing that's longer than six
3 months period as of end of 2022 includes the Opportunistic
4 Strategies Program track record. I don't need to repeat
5 this, but just as a reminder still this September 2021
6 track record is still relatively short for this asset
7 class of private -- any private asset class performance
8 should be evaluated over a longer period of time.

9 The punch line here is that the program has, in
10 this short period of time, exceeded the policy benchmark
11 performance expectation. Just to clarify, the policy
12 benchmark that we're showing here for a period longer than
13 6 months is a blend of the benchmark when it was
14 Opportunistic Strategies, which was 7 percent flat target
15 versus the Private Debt Program current program benchmark,
16 which is your leverage loan index plus 125 basis point
17 target.

18 So melding all that together over all time
19 periods, this program has exceeded the target policy
20 benchmark performance. It is still in ramp-up mode. And
21 this is just a snapshot of what we've seen so far. And we
22 will do ongoing evaluation of the performance, but this is
23 not just something we do on an annual basis. We're in
24 close contact with the team and we sit in their
25 discussions of investment opportunities and we look --

1 have discussions about the potential risks and return
2 potentials of the -- of the portfolio with the team on an
3 ongoing basis.

4 With that, I'll hand it over to my colleague Bill
5 to go through the details of the portfolio construction
6 and implementation.

7 MR. BRACAMONTES: Yeah. Thanks, Rose.

8 And good afternoon, everyone. Before jumping
9 back into the private debt portfolio, I wanted to just
10 quickly introduce myself. But my name is Bill
11 Bracamontes. I'm a Managing Director at Wilshire and I
12 work closely with Rose, Tom, and Ali, and others, but
13 specifically I sit within the alternatives team. So I
14 spend my day-to-day really on the private market side of
15 things. I've been with Wilshire for coming up on 16 years
16 in July.

17 So going back to the implementation side and
18 picking up where Rose left off, the staff has really done
19 a --

20 MS. DEAN: Page 9.

21 MR. BRACAMONTES: Sorry, we're on -- we're on
22 page 9 too.

23 ---o0o---

24 MR. BRACAMONTES: Staff has done a nice job of
25 ramping up the portfolio. You'll remember the long-term

1 target for private debt is five percent at 12/31/2022.
2 That sit at -- that sits at 2 percent. And as Rose said,
3 8.9 billion of market value across 24 billion of
4 commitments. The way they've done that from a pacing
5 standpoint has been pretty consistent, which is a good
6 sign and you see that in the top left chart. If you
7 average the deployment over the last few years, it's been
8 about 8 billion per year, which is good sign, right? We
9 talked a couple times today about the importance of
10 vintage year diversification, and not timing markets, and
11 not being out of the market, right, not trying to
12 overthink the timing out, which is -- which is impossible
13 to do. And so that's a good sign and hopefully that
14 continues going forward.

15 From a geographical standpoint, the portfolio is
16 quite different diversified, heavy on the U.S. side.
17 Technically, 45 percent global, but when you double check
18 on that, it is primarily U.S. and Europe, which is --
19 which is fairly consistent with kind of the broader market
20 and fund raising statistics out there. So that's another
21 good sign.

22 And in terms of the strategy diversification,
23 which we really drill into on slide 10, we looked at this
24 quite closely and you remember there's policy ranges in
25 place for the different substrategies within the

1 out of the portfolio and I expect that to kind of over
2 time be more diversified.

3 Last point I'll make is the second bullet here
4 that we will continue to monitor this broadly, but
5 definitely within the context of the CalPERS policy
6 related procedures as those become a bit more formalized.

7 So if you jump to slide 16 --

8 --o0o--

9 MR. BRACAMONTES: -- you know, that was a -- that
10 was a quick rundown of just our annual private debt
11 review, but I wanted to leave you with just kind of the
12 highlights, because I know it's a lot of information
13 thrown at once. So one is, as Rose said, the performance,
14 while it's still limited track record, it has been
15 positive, both on an absolute and relative basis. The
16 portfolio has outperformed the benchmark since September
17 2021.

18 As we talked about just right now, all the
19 exposures are -- kind of have the -- have a green light,
20 right, especially strategy, which has those policy ranges,
21 but geographically and from a manager concentration
22 standpoint, you know, things look good. And then
23 importantly the -- really the private debt team, Jean and
24 her team, have done an excellent job of building that
25 foundation of the portfolio. Right now, they're at 2

1 percent going to 5 percent. That's no easy task, right?
2 And so a lot of credit to the team here. But just as we
3 look forward, right, and as they continue to deploy the
4 capital, just being mindful about what Rose mentioned and
5 continuing to invest in the team and resources, so that
6 they can -- they can continue the progress on the private
7 debt side.

8 CHAIRPERSON MILLER: Great. Okay. Thank you.
9 Very good. I do have some questions and so I'll start
10 with Director Pacheco.

11 COMMITTEE MEMBER PACHECO: Thank you.

12 CHAIRPERSON MILLER: There we go.

13 COMMITTEE MEMBER PACHECO: Thank you. Thank you,
14 Jean and thank you team from Wilshire from doing this.
15 This is -- this is pretty exciting. Pretty exciting
16 material in terms of how we've been -- how we're wrapping
17 this up. And so my question is, and it's actually more
18 for Jean or Wilshire, if you guys want to chime in as well
19 is how does a higher interest environment that we
20 currently are in impact the opportunity set in private
21 debt?

22 Thank you.

23 MANAGING INVESTMENT DIRECTOR HSU: In general,
24 because if you think about most of our assets is a base
25 rate of SOFR. Okay, in the past it's LIBOR and then right

1 now it's SOFR, and then plus a spread, right?

2 So SOFR and LIBOR they are closely related to
3 where the Fed fund rate is, short-term interest rate. So
4 we are doing it like three months SOFR. So as the
5 interest rate goes up, up, up, our yield striked -- our
6 coupon restriked every three months.

7 COMMITTEE MEMBER PACHECO: Wow.

8 MANAGING INVESTMENT DIRECTOR HSU: Okay. So in
9 the past, you know -- you know, if you're thinking our
10 asset yield is probably like 5 to 6 percent. In today's,
11 our asset yield is like 8 to 9 percent.

12 COMMITTEE MEMBER PACHECO: Wow.

13 MANAGING INVESTMENT DIRECTOR HSU: Okay. So this
14 is the reasons why the private debt can perform so well
15 versus treasuries, you know, which is -- was a fixed
16 coupon. And when the short-term interest rate goes up, it
17 means that your discount rate, your cash flow discount
18 rate, you know, is going higher and then the dollar
19 discounted from very, very long cash flow comes back to
20 today, it becomes very small. So that's why a rebound
21 with such a great credit will have like, you know, down 15
22 percent in dollar price, right, and in total rate of
23 return. So that is the major difference.

24 So, as we told you like 2 years ago, floating
25 rate to the private debt with the floating rate instrument

1 underneath it is a great investment as the interest rate
2 goes higher, okay, in the rising interest rate
3 environment. However, I do want to caution that when the
4 interest rate goes higher, somebody has to pay for that.
5 Who is paying for that? It's the borrowers, the
6 corporates. Are they able to pay it in that high of
7 interest rate? Is there operation able to generate enough
8 revenue to offset the cash that they need to pay for the
9 interest. That is a question. And then that is something
10 we are monitoring very carefully.

11 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: And,
12 Mr. Pacheco, I would just add that, and it -- and it
13 speaks to what Nicole had said earlier, I mean, this
14 speaks to our need for diversification, right?

15 COMMITTEE MEMBER PACHECO: Right.

16 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:
17 There's some assets that zig in certain
18 environments and some that zag. And with us, we want to
19 build a portfolio that's resilient that can weather
20 through the long-term lens --

21 COMMITTEE MEMBER PACHECO: Right.

22 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:
23 -- you know, weather various environments.

24 COMMITTEE MEMBER PACHECO: But from what I --
25 from what I can tell, I mean, what I -- what Jean was

1 telling us right now in this current environment of this
2 increasing interest rate that we're in right now,
3 especially where I believe, you know, Tom mentioned
4 earlier that we had -- they had predicted -- they were
5 predicting that interest would go down, would taper a cool
6 down, but it seems like we're going to have interest rates
7 keep on going up, because of the -- because they're trying
8 to combat -- we're trying to combat inflation. In this
9 particular environment, at this particular time, we're
10 still going to have this elevated interest rate
11 environment, is that correct? I mean, is that -- I
12 mean -- or am I being -- am I off a little bit?

13 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:

14 That's the million dollar question, right? I
15 mean, it is -- it is the case that up until Wednesday of
16 last week, I think everybody was calling for higher and
17 higher interest rates and even calling for like maybe a 50
18 basis point right hike.

19 COMMITTEE MEMBER PACHECO: Right.

20 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: The
21 events of Silicon Valley Bank and the like --

22 COMMITTEE MEMBER PACHECO: Um-hmm.

23 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:

24 -- seems to have backed that off and you've seen
25 the yield curve come back significantly in the short end.

1 COMMITTEE MEMBER PACHECO: Exactly.

2 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: So --
3 but it speaks to -- you know, to Jean's point, by having
4 these different exposures in here --

5 COMMITTEE MEMBER PACHECO: Exactly.

6 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: -- it
7 allows us to, you know, sort of try to weather all those
8 storms.

9 COMMITTEE MEMBER PACHECO: Yeah, in the long run.
10 That's -- and that's what I'm going back to -- alluding --
11 everything is back to the long run.

12 Thank you so much.

13 MS. DEAN: I do have one more thing to add to
14 that, as we mentioned, this program is still in ramp-up
15 mode.

16 COMMITTEE MEMBER PACHECO: Exactly.

17 MS. DEAN: So as interest rate environments
18 change very quickly, the landscape changes quickly, there
19 is dry powder, there is capital to take advantage of, you
20 know, potentially good opportunities that are coming out
21 of these volatile environments.

22 COMMITTEE MEMBER PACHECO: Exactly.

23 MANAGING INVESTMENT DIRECTOR HSU: Yeah. And
24 then remember that we have buckets for rescue financing
25 and liquidity financing. And I will talk more about this

1 in the closed session about a strategy. I mean, how do I
2 want to position ourself at taking advantage of that?

3 COMMITTEE MEMBER PACHECO: Absolutely. Thank you
4 very much for this comment. This has been very, very
5 educational. Thank you.

6 CHAIRPERSON MILLER: Okay. Next, we have
7 Director Middleton.

8 COMMITTEE MEMBER MIDDLETON: All right. Thank
9 you. Thank you all. Very good report and a nice way to
10 start this process.

11 My first question is for the Wilshire team.
12 We -- I can't recall the last time I saw us outperforming
13 the benchmark by quite this amount. So to what do you
14 describe that performance and how sustainable is it?

15 MS. DEAN: It sort of melds -- thanks for the
16 question. It melds multiple things that were already
17 mentioned in previous sessions as well as this session.
18 One is that obviously private markets, there aren't as
19 frequent a valuation versus public markets. And if you
20 recall, this private debt program benchmark is a public
21 market's benchmark plus 125 basis points. So bank loans
22 benchmark versus -- plus some illiquidity premium that you
23 would expect to get compensated for locking up your money.
24 So there is that lag in valuation.

25 The other portion is obviously we are benefiting,

1 as Jean mentioned, as interest rates go higher, floating
2 rate investments do have the benefit of getting that. But
3 you're underlying benchmark for the Opportunistic Strategy
4 Program was a 7 percent flat absolute return target. So
5 relative to that, obviously you have some benefits.

6 And then obviously, because in this past year in
7 2022, all fixed income sectors had a very challenging
8 time. Bank loans was no exception as credit quality was
9 under concerns as equity markets sold off, et cetera. So
10 the benchmark for private debt it -- just like private
11 equity is not perfect. We're trying to proxy the
12 opportunity set, so there is lot of deviant -- deviation
13 from the S&P leverage loan benchmark versus the private
14 debt program implementation.

15 COMMITTEE MEMBER MIDDLETON: All right. Thank
16 you.

17 MS. DEAN: And, Jean, you might have something to
18 add.

19 MANAGING INVESTMENT DIRECTOR HSU: I will say
20 that everything will come back to a very simple concept,
21 which is supply and demand. Okay. So remember that in
22 my -- one of the risk slide, I say if there's too much
23 money chasing it, then the spread will compress. And in
24 the premium in between the public market versus the
25 private market will shrink. And the public market

1 benchmark is my benchmark. So being prudent, I will say
2 if the premium shrank so much that it is not risk-reward
3 adjusted correctly, we should pause, and then we can wait
4 a little bit and -- or see some other things whether --
5 you know, if there's any other place. If it's not in
6 corporate, can that in structure product. If it's not in
7 structure product, can I be in real estate?

8 So that's why, you know, having a flexible range
9 on the different buckets that will give us a lot of
10 flexibility to deploy into the best risk-reward, and then
11 having some sort of relative value concept, yeah.

12 MS. DEAN: Apologies. But one more comment is
13 the dispersion between good manager's performance and poor
14 manager's performance in the private market sector is much
15 wider than the public market sector. So that's also sort
16 of telling about this team's ability to select good
17 managers.

18 COMMITTEE MEMBER MIDDLETON: So you're both doing
19 a remarkable job of setting up what was going to be my
20 next question --

21 (Laughter).

22 COMMITTEE MEMBER MIDDLETON: -- which is what is
23 your confidence that we're going to be able to attract and
24 retain the kind of talent that we need for this kind of
25 program?

1 MS. DEAN: I'll let you talk about that.

2 (Laughter).

3 MANAGING INVESTMENT DIRECTOR HSU: Let Rose talk
4 about it.

5 Before that, can I deviate a little bit, because
6 I think there's one thing which is also very important.
7 It is CalPERS platform.

8 COMMITTEE MEMBER MIDDLETON: Um-hmm.

9 MANAGING INVESTMENT DIRECTOR HSU: The size of
10 CalPERS, that -- we are able to find like high conviction,
11 good managers that I, you know, can use my size to
12 negotiate the fees. I think this is very important,
13 because the performance can be the same, but if you pay
14 less fees, then alpha is much higher, right? So my
15 strategy right from the beginning, three years ago is
16 very, very clear, I only have very limited resources,
17 right? So what we can do is, okay, find very good manager
18 with good platforms that we know that they are going to
19 stay. You know, remember that we are building these --
20 our portfolio through COVID. We do all our due diligence
21 in Zoom. Okay. So I need to make sure that my manager is
22 a real manager, like Goldman Sachs or, you know, Oak Hill,
23 or like BlackRock. It's not like two person with a
24 Bloomberg terminal, right, because I cannot visit them.
25 Okay. So this is very important about the

1 strategy right before we implement this high conviction
2 manager. So will see my manager concentration a little
3 bit more concentrated. I don't want to do like a hundred
4 of them that I will not be able to manage at all. I will
5 have a handful of them high conviction good performance
6 manager. I mitigated that by having a diversified
7 portfolio. So even though that we are only two percent of
8 what we are supposed to deploy 5 years from now -- 3 years
9 from now, we have already had 6 -- more than 600
10 underlying assets in it, so it is very, very diversified.

11 So although at manager level not as diversified,
12 but the underlying assets is very diversified, so that
13 will give -- will mitigate our risk.

14 COMMITTEE MEMBER MIDDLETON: All right. Thank
15 you all.

16 CHIEF INVESTMENT OFFICER MUSICCO: Maybe I can
17 speak to the resourcing question, if you'd like.

18 COMMITTEE MEMBER MIDDLETON: Yes.

19 CHIEF INVESTMENT OFFICER MUSICCO: I think -- I
20 mean, I don't think the team will say it, but it's a
21 highly skilled and it's a differentiated skill at the end
22 of the day what Jean and her team are doing and it's very
23 difficult to attract and retain talent. Full stop. And
24 no different than some of the recruitment challenges that
25 we've discussed prior where you're thinking about all of

1 the things we talked about earlier, you know, the pull for
2 folks to want to work from home versus not, the pull to
3 get folks to move to Sacramento, the pull to get folks who
4 have not only a private market background, but a private
5 debt background. It's no easy feat. So it's a real
6 challenge.

7 The team has been working like one -- three
8 people per one person at any moment in time. And so as a
9 CIO, you know, that's not sustainable. It's not a
10 sustainable ask. It's not a healthy ask of the team, and
11 so we will need to make choices which is unfortunate,
12 because the opportunity set in front of us right now it's
13 extremely interesting. So we can get into a little bit in
14 closed session how we're thinking through weaving and
15 bobbing during this difficult time to recruit phase that
16 we're in. But otherwise, the team has done an exceptional
17 job as you can see.

18 COMMITTEE MEMBER MIDDLETON: All right. Thank
19 you very much.

20 CHAIRPERSON MILLER: Okay. I'm not seeing
21 anymore questions and don't see -- let's see no requests
22 from the public to speak, so I will say thank you for the
23 very comprehensive presentations. Really appreciate your
24 time and all the thought that went into it. And I
25 appreciate the work of you and your teams. And we will

1 move on to our summary of committee Direction.

2 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Yes,
3 Mr. Chair. We certainly got lots of bits of feedback as
4 we went today, but I took down two specific bits of Chair
5 direction. The first is responsive to Mr. Ruffino's
6 request to have an education session on executive pay and
7 sort of how that calculus works and how we can possibly
8 simplify, so that's the first one.

9 And then the second one is to really think
10 through how we integrate ESG and specifically human
11 capital management topics into our PE work and then get it
12 documented. And we need to figure out where, and how, and
13 think through that engagement lens and sort of what
14 CalPERS is doing, but we will come back with something
15 that is sort of responsive to that direction on how we
16 document that.

17 CHAIRPERSON MILLER: Great. That sounds about
18 right.

19 Okay. At this point, we've got public comment.
20 And I've got several commenters here, so we'll start with
21 Al Darby.

22 Okay. Welcome. Your mic is live, so you can
23 start whenever you like.

24 MR. DARBY: Thank you. Good afternoon, Mr. Chair
25 and Board. Al Darby, Vice President, Retired Public

1 Employees Association.

2 I'll be expressing the opinions of RPEA
3 investment professionals. In my remarks, I want to
4 reflect their observations about the stated direction the
5 Investment Committee will take regarding PERF portfolio
6 strategy and private -- also, the private debt arena.

7 Regarding portfolio strategy, RPEA agrees with
8 academics who have concluded that passive portfolio
9 management beats active management over time. And with
10 active management, risk is materially greater. Inflation
11 is predicted to decline towards 2 percent, but core
12 inflation will remain above policy targets keeping the
13 Federal Reserve Bank policy tight. Economic growth will
14 likely continue to slow and potentially decline making the
15 risk of recession fairly high. Macroeconomic volatility
16 will remain elevated and the dispersion of growth
17 expectations to converge throughout the year.

18 Heightened volatility in asset returns suggest
19 this is not the time to take on more risk. Equity and
20 bond returns in 2022 were exceptional. It's doubtful that
21 that will repeat any time soon. Now, that other
22 investment instruments provide a return on investment,
23 hire interest rates and so forth, it's doubtful that money
24 will rush back to the stock market what appears to be on
25 its way back up.

1 In 2008, private equity assets were a negative \$7
2 billion. Why take on more risk by doubling down in that
3 category at this point?

4 In the area of private debt, RPEA is glad to hear
5 that CalPERS has decided to allow transparency in the
6 Private Debt Program. And without the laws protecting it
7 from member scrutiny. While we still have concerns about
8 the risk associated with subprime loans of this type, RPEA
9 is hopeful that CalPERS will apply adequate due diligence
10 to make this loan program a safe and viable investment
11 instrument.

12 Constant quarterly interest cash flow depends on
13 current loans. If too many loans fall into non-performing
14 condition, it begs the question does CalPERS have a
15 stomach for vulture investment administration? In the
16 long run, debt is debt, and the lack of objective pricing
17 doesn't change that.

18 Now, in all areas of private equity, there are
19 opportunities that we see that -- particularly in the area
20 of artificial intelligence, robot technology, there's huge
21 opportunities there. It may mean private equity in a
22 tradition a sense or venture capital otherwise.

23 Director Pacheco made reference to a need in the
24 area of investment analyst -- analysis. And certainly AI
25 and other technologies in the, you know, information

1 technology area are important in that regard. Battery and
2 hydrogen technology are great opportunities for either
3 traditional private equity investment or venture capital
4 investment, which CalPERS has committed to in the past and
5 recently recommitted to that -- to venture capital
6 actually and other private equity opportunities.

7 Many, many other opportunities are there.
8 Renewable energy, there's been an effort to dispel
9 investment in fossil fuels, but most fossil fuel companies
10 are also energy companies, who will be converting to
11 renewable energy. So investments -- divesting from those
12 types of investments don't make sense.

13 CHAIRPERSON MILLER: Yeah. Thank you.

14 MR. DARBY: We see many, many opportunities where
15 private equity and venture capital can be of value to
16 CalPERS. And it's going to take some thinking out of the
17 box to recognize some of the cutting edge technologies
18 that are emerging and need to be explored for investment.

19 Thank you.

20 CHAIRPERSON MILLER: Okay. Thank you, Al.

21 Okay. Next I have Randall Cheek.

22 MR. CHEEK: First, I want to say congratulations
23 to my former boss, Yvonne Walker, who represents the
24 retirees on the Board. Congratulations, Yvonne.

25 My name is Randy Cheek. I am the Legislative

1 Director for Retired Public Employees Association. And I
2 came today to talk about some red flags that are out there
3 that your very intelligent people and your very watching
4 the news and so on and so forth. But you must know this
5 is weighing on a lot of Americans today. And that's the
6 fact that you talk about your program for CSG, and you
7 have a country like China, which is out there now, which
8 has created one of the largest polluters in the world.
9 They have treated the Uyghurs by making them slaves and
10 trying to eliminate them. They have suppressed freedom of
11 speech in Hong Kong and freedom of the press in Hong Kong.
12 They have suppressed the World Health Organization finding
13 out what's going on with COVID at Hunan. And we know that
14 they've put out balloons, not only in the United States to
15 spy, but around the world.

16 Now, this has created a problem that the United
17 States Congress has created a special committee, a
18 bipartisan committee, to look at Communist China. We've
19 had the speaker just the other day say that China is one
20 of the top three problems for this country. We know that
21 they have forced American aircraft and ships out of
22 international waters. They have said that they are
23 planning to give weapons to a war criminal like Putin,
24 which would create problems for the American government
25 and the freedom of democracy.

1 They have said that they plan to take over Taiwan
2 in a few years. In fact, they've moved it up to 2025.
3 And the President has said he will do everything he can to
4 stop this. What does that mean for us? If we have
5 investments indirectly or directly, we will lose.

6 But one of the most important things that you
7 must be aware of is that China is one of the largest
8 producers of generic drugs for Americans. And people like
9 me who depend on generic drugs will be scrambling to find
10 someone to provide the medication that I need. So what
11 I'm saying to you, look at your investments in China, but
12 look forward to making investments in the United States
13 with not only the health care industry and health care
14 supplies, but in generic drugs. I believe that this is a
15 possibility for investment, because if anything happens in
16 China, we're going to be scrambling like we did with the
17 beginning of COVID, when we couldn't get N-19 masks and we
18 couldn't get health care supplies.

19 So please look at your investments in China and
20 look forward to making investments in the United States.

21 CHAIRPERSON MILLER: Thank you for your comments.

22 Okay. I'm not seeing any other public
23 commenters. Do we have anyone on the phone?

24 BOARD CLERK ANDERSON: (Shakes head).

25 CHAIRPERSON MILLER: No. Okay. I think that

1 pretty much wraps up this session. We'll now recess into
2 closed session for Items 1 to 7 from the closed session
3 agenda. Then we'll immediately reconvene in open session
4 after the closed session.

5 Thank you.

6 (Off record: 3:34 p.m.)

7 (Thereupon the meeting recessed
8 into closed session.)

9 (Thereupon the meeting reconvened
10 open session.)

11 (On record: 5:42 p.m.)

12 CHAIRPERSON MILLER: And so we are back in open
13 session and hearing no objections, we will be adjourned
14 until tomorrow. What have we got PHBC at 9. 8:30.

15 (Thereupon, the California Public Employees'
16 Retirement System, Investment Committee
17 meeting open session adjourned at 5:42 p.m.)

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