

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

ZOOM PLATFORM

MONDAY, JUNE 14, 2021

9:30 A.M.

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

APPEARANCES

COMMITTEE MEMBERS:

Theresa Taylor, Chairperson
David Miller, Vice Chairperson
Margaret Brown
Rob Feckner
Henry Jones
Fiona Ma, represented by Matthew Saha
Lisa Middleton
Stacie Olivares
Eraina Ortega
Ramon Rubalcava
Shawnda Westly
Betty Yee, represented by Lynn Paquin

STAFF:

Marcie Frost, Chief Executive Officer
Dan Bienvenue, Interim Chief Investment Officer
Matt Jacobs, General Counsel
Pam Hopper, Committee Secretary
Michael Krimm, Investment Director
Arnie Phillips, Interim Deputy Chief Investment Officer
Christine Reese, Investment Director
Anne Simpson, Managing Investment Director

APPEARANCES CONTINUED

ALSO PRESENT:

William Michael Cunningham

Steven Elias

Sandy Emerson, Fossil Free California

Alyssa Giachino, Private Equity Stakeholder Project

Richard Godfrey, MD, TriCity Ecology Center

J.J. Jelincic

Kareem Raymond, Goldman Sachs

Dana Stokes, Fossil Free California

Sara Theiss, Fossil Free California

Sheila Thorne

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PROCEEDINGS

1
2 CHAIRPERSON TAYLOR: I am calling the Investment
3 Committee open session to order.

4 Ms. Hopper, can you recall roll.

5 COMMITTEE SECRETARY HOPPER: Theresa Taylor?

6 CHAIRPERSON TAYLOR: Here.

7 COMMITTEE SECRETARY HOPPER: Margaret Brown?

8 COMMITTEE MEMBER BROWN: Here.

9 COMMITTEE SECRETARY HOPPER: Rob Feckner?

10 COMMITTEE MEMBER FECKNER: Good morning.

11 COMMITTEE SECRETARY HOPPER: Henry Jones?

12 COMMITTEE MEMBER JONES: Here.

13 COMMITTEE SECRETARY HOPPER: Frank Ruffino for
14 Fiona Ma?

15 ACTING COMMITTEE MEMBER SAHA: Hi, Pam. Good
16 morning. It's Matt. I'm sitting in for the Treasurer.

17 COMMITTEE SECRETARY HOPPER: Okay. Matt Saha for
18 Fiona Ma?

19 ACTING COMMITTEE MEMBER SAHA: Here.

20 COMMITTEE SECRETARY HOPPER: Lisa Middleton?

21 COMMITTEE MEMBER MIDDLETON: Present.

22 COMMITTEE SECRETARY HOPPER: David Miller?

23 VICE CHAIRPERSON MILLER: Here.

24 COMMITTEE SECRETARY HOPPER: Stacie Olivares?

25 COMMITTEE MEMBER OLIVARES: Here.

1 COMMITTEE SECRETARY HOPPER: Eraina Ortega?

2 COMMITTEE MEMBER ORTEGA: Here.

3 COMMITTEE SECRETARY HOPPER: Ramon Rubalcava?

4 COMMITTEE MEMBER RUBALCAVA: Here.

5 COMMITTEE SECRETARY HOPPER: Shawnda Westly?

6 COMMITTEE MEMBER WESTLY: Present.

7 COMMITTEE SECRETARY HOPPER: Lynn Paquin for
8 Betty Yee?

9 ACTING COMMITTEE MEMBER PAQUIN: Here.

10 COMMITTEE SECRETARY HOPPER: Madam Chair, all is
11 in attendance.

12 CHAIRPERSON TAYLOR: Okay. All right. Thank you
13 Ms. Hopper.

14 And our next order of business is to approve the
15 June 14, 2021 Investment Committee timed agenda. What's
16 the --

17 VICE CHAIRPERSON MILLER: So moved.

18 CHAIRPERSON TAYLOR: Thank you. Moved by Mr.
19 Miller.

20 I need a second.

21 COMMITTEE MEMBER JONES: Second.

22 CHAIRPERSON TAYLOR: Second by Mr. Jones.

23 All those in favor, Ms. Hopper.

24 COMMITTEE SECRETARY HOPPER: Margaret Brown?

25 COMMITTEE MEMBER BROWN: Aye.

1 COMMITTEE SECRETARY HOPPER: Rob Feckner?
2 COMMITTEE MEMBER FECKNER: Aye.
3 COMMITTEE SECRETARY HOPPER: Henry Jones?
4 COMMITTEE MEMBER JONES: Aye.
5 COMMITTEE SECRETARY HOPPER: Matt Saha for Fiona
6 Ma?

7 ACTING COMMITTEE MEMBER SAHA: Aye.
8 COMMITTEE SECRETARY HOPPER: Lisa Middleton?
9 COMMITTEE MEMBER MIDDLETON: Aye.
10 COMMITTEE SECRETARY HOPPER: David Miller?
11 VICE CHAIRPERSON MILLER: Aye.

12 COMMITTEE SECRETARY HOPPER: Stacie Olivares?
13 COMMITTEE MEMBER OLIVARES: Aye.

14 COMMITTEE SECRETARY HOPPER: Eraina Ortega?
15 COMMITTEE MEMBER ORTEGA: Aye.

16 COMMITTEE SECRETARY HOPPER: Ramon Rubalcava?
17 COMMITTEE MEMBER RUBALCAVA: Aye.

18 COMMITTEE SECRETARY HOPPER: Shawnda Westly?
19 COMMITTEE MEMBER WESTLY: Aye.

20 COMMITTEE SECRETARY HOPPER: Lynn Paquin for
21 Betty Yee?

22 ACTING COMMITTEE MEMBER PAQUIN: Aye.

23 COMMITTEE SECRETARY HOPPER: Madam Chair, we have
24 a motion made by David Miller, seconded by Henry Jones for
25 Agenda Item 2, approval of the timed agenda.

1 CHAIRPERSON TAYLOR: Motion passes. Thank you.
2 Our next item on the agenda is the Executive
3 Report. Mr. Bienvenue.

4 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Yes.
5 Good morning, Madam Chair and members of the Investment
6 Committee. We have a good agenda before us today, so I'll
7 keep my comments brief and just give a quick overview of
8 market conditions in the portfolio and then a quick
9 description of the business before us today.

10 In looking at the markets, I would say three
11 major economic themes are driving market activity over the
12 recent past. First is the continued very decisive U.S.
13 and global economic rebound continuing the form of a
14 V-shaped recovery.

15 Second, and consistent with that rebound, we're
16 seeing rising inflation pressure and expectations. And
17 part of those pressures are due to base effects from a
18 weak Q20, but also supply bottlenecks as demand jumps
19 ahead of supply coming back online. And really, the key
20 question here is whether inflation will be transitory or
21 be more sustained. And that certainly is what the Fed is
22 watching, and capital markets are watching, and certainly
23 your investment team is looking to discern as data
24 continue to come in.

25 And the third major theme is central bank policy

1 for both the Fed and global central banks, with the big
2 question being how accommodative policy will remain over
3 time.

4 And these themes have left markets with a couple
5 of things. First of all, bond yields have certainly
6 bounced off the lows of the pandemic, but they've also
7 come off the highs with the beginning of the reopening and
8 more recently they seemed to have leveled off with the
9 U.S. ten-year hovering around one and a half percent,
10 equities, certainly in the U.S., but globally also have
11 rallied a record or near record highs with corporate
12 earnings being very, very strong in both public markets
13 and private equity markets.

14 And this, of course, has implications for our
15 portfolio. We know from past discussions that equity risk
16 is the primary source of risk for the PERF. So with these
17 buoyant equity markets, PERF performance has been quite
18 strong, ending the quarter to March 31st with a market
19 value of \$450 billion and a fiscal year-to-date return of
20 15 percent.

21 Now, bear in mind, of course, that we're
22 long-term investors and we need to look beyond the short
23 term ups and downs of markets. You'll certainly hear us
24 say that when markets are weak, but you should also
25 equally hear us say it when markets are strong. The

1 recent performance is very encouraging, but we do
2 definitely need to maintain a long-term perspective.

3 Now, in terms of relative return, the PERF
4 portfolio is underperforming the benchmark by 74 basis
5 points, fiscal year to date with private equity as the
6 primary detractor. This is what we would expect, of
7 course, given the performance of the public equity
8 benchmark and lags of private equity valuations. And this
9 dynamic also speaks to our need to pick a long horizon
10 when we're viewing portfolio performance.

11 And performance of the affiliate funds also has
12 been in line with expectations garnering positive returns
13 from the equity exposures, and with total assets of the
14 affiliate trusts now approaching \$25 billion as of March
15 31st.

16 So that's a quick overview of the markets and the
17 portfolio, which, of course, is the primary objective of
18 this Committee, but now let's pivot to the business that
19 we have before us today. We'll ead off with the consent
20 items, of course. And from there, we go right to our one
21 action item for the Committee's consideration today, which
22 Christine Reese presenting the recommendations for
23 revisions of the Investment Policy for the Long-Term Care
24 Program.

25 From there, we'll move on to the information

1 items that are on our agenda and we have three. First is
2 a presentation from Goldman Sachs that is part of our
3 asset liability management work this year. This one is
4 focusing on the capital markets and the outlook for market
5 returns. And bear in mind that the cyclical asset
6 liability management work is one of the most important
7 bodies of work for CalPERS, knowing, of course, that one
8 of our ten Investment Beliefs is the strategic asset
9 allocation is the dominant driver of portfolio risk and
10 return.

11 Our second information is a first reading of
12 potential changes to the Total Fund and some of the
13 Affiliate Fund investment policies to enhance how we think
14 about and manage tracking error. And these potential
15 changes are in response to Committee direction in November
16 to bring back draft policy changes.

17 And finally, we have an update on the five-year
18 strategic plan and our Sustainable Investment Strategy.
19 Please bear in mind that the strategic plan was adopted in
20 August of 2016, so Anne Simpson is here to walk us through
21 both the original objectives, as well as some of the
22 outcomes.

23 And that concludes my opening remarks, Madam
24 Chair. With that, I'll turn it back to you to take any
25 questions the Committee may have or to take us through the

1 agenda.

2 CHAIRPERSON TAYLOR: So I am not seeing any
3 questions, so I'm going to move on with the agenda. We
4 are on item number 4, action consent items. What's the
5 mood of the Committee?

6 VICE CHAIRPERSON MILLER: So --

7 CHAIRPERSON TAYLOR: Go ahead, David.

8 VICE CHAIRPERSON MILLER: I was just going to say
9 move approval, if there are no objections.

10 CHAIRPERSON TAYLOR: Okay. It's been moved by
11 Mr. Miller.

12 COMMITTEE MEMBER FECKNER: Second.

13 Second.

14 CHAIRPERSON TAYLOR: Seconded by Mr. Feckner.
15 Ms. Hopper.

16 COMMITTEE SECRETARY HOPPER: Margaret Brown?

17 COMMITTEE MEMBER BROWN: Aye.

18 COMMITTEE SECRETARY HOPPER: Rob Feckner?

19 COMMITTEE MEMBER FECKNER: Aye.

20 COMMITTEE SECRETARY HOPPER: Henry Jones?

21 COMMITTEE MEMBER JONES: Aye.

22 COMMITTEE SECRETARY HOPPER: Matthew Saha for
23 Fiona Ma?

24 ACTING COMMITTEE MEMBER SAHA: Aye.

25 COMMITTEE SECRETARY HOPPER: Lisa Middleton?

1 COMMITTEE MEMBER MIDDLETON: Aye.

2 COMMITTEE SECRETARY HOPPER: David Miller?

3 VICE CHAIRPERSON MILLER: Aye.

4 COMMITTEE SECRETARY HOPPER: Stacie Olivares?

5 Stacie Olivares?

6 COMMITTEE MEMBER OLIVARES: Aye.

7 COMMITTEE SECRETARY HOPPER: Eraina Ortega?

8 COMMITTEE MEMBER ORTEGA: Aye.

9 COMMITTEE SECRETARY HOPPER: Ramon Rubalcava?

10 COMMITTEE MEMBER RUBALCAVA: Aye.

11 COMMITTEE SECRETARY HOPPER: Shawnda Westly?

12 COMMITTEE MEMBER WESTLY: Aye.

13 COMMITTEE SECRETARY HOPPER: Lynn Paquin for
14 Betty Yee.

15 ACTING COMMITTEE MEMBER PAQUIN: Aye.

16 COMMITTEE SECRETARY HOPPER: Madam Chair, we have
17 a motion made by David Miller, seconded by Rob Feckner,
18 all eyes, for Agenda Item 4a approval of the March 15,
19 2021 open session minutes.

20 CHAIRPERSON TAYLOR: All right. Great. We --
21 the motion passes.

22 And we're going to move on to information consent
23 items. I have not received any requests to pull anything
24 off.

25 So then we will move on to Action Item 6, policy

1 delegation for the Long-Term Care Investment Policy
2 update. And Dan, is that you?

3 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: All
4 right. Yes. Thank you, Madam Chair. It looks like we
5 have Christine Reese brought forward. So as usual, our
6 support friends are ahead of us. Can we also please bring
7 Tom Toth forward from Wilshire to answer any questions
8 that the Committee may have.

9 And this item proposes changes to the key
10 parameters of the Investment Policy for the Long-Term Care
11 Program. Bear in mind that the Committee adopted a new
12 strategic asset allocation for Long-Term Care at the March
13 meeting. So the idea of this item is to both walk through
14 the changes to policy and then also the implementation.

15 And with that, I will turn it over to Christine
16 Reese to take us through the item.

17 Christine, over to you.

18 INVESTMENT DIRECTOR REESE: Great. Thank you,
19 Dan. Can you hear me?

20 (Heads nodding.)

21 INVESTMENT DIRECTOR REESE: Okay. Great.

22 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: We
23 can

24 (Thereupon a slide presentation.)

25 INVESTMENT DIRECTOR REESE: Great. Good morning.

1 Christy Reese, CalPERS team member.

2 And this agenda item, the Long-Term Care Fund
3 Investment Policy update, as Dan mentioned, follows on
4 from the investment strategy that was approved in March
5 and brings forward for approval the necessary Investment
6 Policy updates to move to the new strategy. I will cover
7 the strategic asset allocation targets and ranges,
8 benchmark, and tracking error.

9 So if we could move to page three.

10 --o0o--

11 INVESTMENT DIRECTOR REESE: So on this page, we
12 are proposing two modifications to the strategic asset
13 allocation targets that were approved in March. First, we
14 propose to update the policy targets to include TIPS with
15 the fixed income asset class. This move will enhance the
16 efficiency of portfolio management and operation, but will
17 not modify the risk return characteristics for the
18 portfolio as the TIPS target will remain at six percent
19 within fixed income.

20 Second, we would like to include a liquidity
21 asset class with a target of zero to allow for operational
22 cash flows in the portfolio. And this asset class is
23 currently within policy. It was not however in the March
24 item, so we wanted to bring that forward for clarity as
25 well.

1 If we could move to page four.

2 --o0o--

3 INVESTMENT DIRECTOR REESE: So on this page,
4 we've added the proposed ranges to each of the asset
5 allocation targets. The ranges are somewhat higher for
6 equities and fixed income, but it is important to note
7 that the ranges are not for active management, as in
8 actively over or underweighting asset classes, but rather
9 to allow for market movement between quarterly rebalances
10 without triggering an interquarter rebalance.

11 If we could move to page five.

12 --o0o--

13 INVESTMENT DIRECTOR REESE: So these are the
14 benchmarks that align with the asset allocation strategy
15 approved in March and would just like to note that many of
16 these are the same or similar to current Long-Term Care
17 Fund benchmarks.

18 And if we could move to page six.

19 --o0o--

20 INVESTMENT DIRECTOR REESE: So here we present
21 the proposed forecast tracking error of one percent. And
22 this is the risk management measure of portfolio returns
23 compared to benchmark returns. And we're expanding the
24 definition to include, as well, reporting back to the
25 Board, should the tracking error exceed the limit, we

1 would report and then develop a plan to bring it back
2 within the policy limit.

3 And then page seven.

4 INVESTMENT DIRECTOR REESE: So to conclude, and I
5 realize this was a pretty short straightforward
6 presentation, we do recommend to adopt the policy updates
7 and implement those updates in alignment with the
8 implementation of the new asset allocation strategy. So
9 the team will continue with the remaining phases of the
10 project, of contracting, set up, and implementation with
11 that all targeted to be complete in the September time
12 frame.

13 And that concludes my presentation and I'm happy
14 to take any questions.

15 CHAIRPERSON TAYLOR: Thank you. I'm not seeing
16 any questions from the Board, Christine, but I do have a
17 public comment on 6a.

18 INVESTMENT DIRECTOR REESE: Okay.

19 CHAIRPERSON TAYLOR: Mr. Fox, do you have the
20 person on the phone?

21 STAKEHOLDER RELATIONS CHIEF FOX: Yes, Madam
22 Chair. We have J.J. Jelincic on Item 6a.

23 CHAIRPERSON TAYLOR: Okay. Thank you. Go ahead,
24 Mr. Jelincic.

25 MR. JELINCIC: Hello -- Hello. This is J.J.

1 Jelincic. The Committee is going to adopt this policy.
2 And quite frankly, it doesn't give me a lot of heartburn,
3 but I want to point out once again that the Board adopts
4 policies for a reason. And if the policies need to be
5 changed, then staff should come forward with the changes
6 and the reason for the changes. That the policy is being
7 ignored is -- and not complied with is a reason for
8 discipline, not a reason for changing the policy. At some
9 point -- at some point, the Board has to say we are in
10 charge.

11 Thank you.

12 CHAIRPERSON TAYLOR: Thank you.

13 Do we have any other comments, Mr. Fox?

14 STAKEHOLDER RELATIONS CHIEF FOX: Madam Chair,
15 that con -- that concludes public comment on Item 6a.

16 CHAIRPERSON TAYLOR: Okay. Thank you. So then
17 we're going to move on to Item 7 and --

18 COMMITTEE SECRETARY HOPPER: Madam Chair --

19 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

20 Sorry, Madam --

21 COMMITTEE MEMBER HOPPER: Madam Chair.

22 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

23 Madam Chair, I'm sorry. Yeah, that's an action
24 item, so we need to take action on that item, please.

25 CHAIRPERSON TAYLOR: I'm sorry. Yes.

1 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

2 Thank you.

3 CHAIRPERSON TAYLOR: I'm sorry. So let's -- I
4 need a motion to pass Item --

5 VICE CHAIRPERSON MILLER: So moved.

6 CHAIRPERSON TAYLOR: Moved by Mr. Miller.

7 COMMITTEE MEMBER JONES: Second.

8 CHAIRPERSON TAYLOR: Second by was that Mr.
9 Jones?

10 COMMITTEE MEMBER JONES: (Nods head.)

11 CHAIRPERSON TAYLOR: Okay. Seconded by Mr.
12 Jones. So we need -- Pam, can you go ahead and take a
13 vote, please.

14 COMMITTEE SECRETARY HOPPER: Margaret Brown?

15 COMMITTEE MEMBER BROWN: No.

16 COMMITTEE SECRETARY HOPPER: Rob Feckner?

17 COMMITTEE MEMBER FECKNER: Aye.

18 COMMITTEE SECRETARY HOPPER: Henry Jones?

19 COMMITTEE MEMBER JONES: Aye.

20 COMMITTEE SECRETARY HOPPER: Matthew Saha for
21 Fiona Ma?

22 ACTING COMMITTEE MEMBER SAHA: Aye.

23 COMMITTEE SECRETARY HOPPER: Lisa Middleton?

24 COMMITTEE MEMBER MIDDLETON: Aye.

25 COMMITTEE SECRETARY HOPPER: David Miller?

1 VICE CHAIRPERSON MILLER: Aye.

2 COMMITTEE SECRETARY HOPPER: Stacie Olivares?

3 COMMITTEE MEMBER OLIVARES: Aye.

4 COMMITTEE SECRETARY HOPPER: Eraina Ortega?

5 COMMITTEE MEMBER ORTEGA: Aye.

6 COMMITTEE SECRETARY HOPPER: Ramon Rubalcava?

7 COMMITTEE MEMBER RUBALCAVA: Aye.

8 COMMITTEE SECRETARY HOPPER: Shawnda Westly?

9 COMMITTEE MEMBER WESTLY: Aye.

10 COMMITTEE SECRETARY HOPPER: Lynn Paquin for

11 Betty Yee?

12 ACTING COMMITTEE MEMBER PAQUIN: Aye.

13 COMMITTEE SECRETARY HOPPER: Madam Chair, I have
14 ten aye votes, one no vote made by Margaret brown, the
15 motion made by David Miller, seconded by Henry Jones for
16 Agenda Item 6a, Long-Term Care Investment Policy update.

17 CHAIRPERSON TAYLOR: Thank you. So the motion
18 passes. Thank you very much.

19 We'll move on to item -- Agenda Item 7a, and
20 that's the current market environment.

21 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Yes.
22 Thank you, Ms. Taylor. If we could please move Christine
23 Reese and Tom Toth back in the attendee queue, which looks
24 like we've already done. And it looks like we've already
25 got Mr. Kareem Raymond from Goldman Sachs forward also.

1 So this brings us to our information items. The
2 first is Item 7A, for which we are joined by Kareem
3 Raymond from Goldman Sachs Asset Management. Mr. Raymond
4 is going to share with us Goldman's views on capital
5 market conditions, long-term outlook, and the factors they
6 see as impacting capital market assumptions.

7 So this is part of the ongoing asset liability
8 management review for both the Public Employees'
9 Retirement Fund, or the PERF, and also the affiliate
10 trusts. And as I mentioned in my opening comments, this
11 cyclical ALM work is among the most critical bodies of
12 work before us here in 2021. So with that, I will turn it
13 over to Kareem. Kareem, over to you.

14 (Thereupon a slide presentation.)

15 MR. RAYMOND: Perfect. Thanks very much, Dan.
16 Appreciate that. And thanks very much to the Committee
17 for your time here today.

18 Maybe if we flip ahead to the agenda --

19 --o0o--

20 MR. RAYMOND: -- you know, I think we're -- this
21 is on the first page here. We're going to look to cover a
22 handful of topics consistent with Dan's commentary. We'll
23 start by providing some historical context for where we
24 are in the markets and where we are in this current market
25 cycle. We'll then review Goldman Sachs asset management

1 strategic long-term assumptions and provide some context
2 in terms of how those assumptions have evolved over the
3 last few years.

4 And then we'll finish up with a review of some of
5 the key factors impacting those changes, both
6 quantitatively and qualitatively as well to provide some
7 context in terms of where we see these assumptions going
8 on a go-forward basis.

9 So maybe with that, why don't we flip ahead to
10 slide number three.

11 --o0o--

12 MR. RAYMOND: One more ahead.

13 --o0o--

14 MR. RAYMOND: Terrific. So here on slide three,
15 we wanted to provide some context first starting with
16 public equity markets to take a look back in terms of how
17 public equity markets have evolved over the last few
18 years. The first comment I'd make is over the course of
19 these next few pages, we're going to take a look back to
20 2016 and bring it forward to the present. We're looking
21 back to 2016, because that was the last time that CalPERS
22 underwent a more comprehensive ALM study. And so we want
23 to provide some context in between those periods.

24 And then the first comment I'd just make as it
25 relates to public equities, if you'd just look at this

1 chart visually, while you do see some blips that have
2 occurred over this span of time, most notably the COVID-19
3 first quarter of 2020 reduction there, public equity
4 markets have performed quite well over this span of time
5 averaging around 15 and a half percent annual average
6 returns over this span of time.

7 And as Dan mentioned, earlier in the presentation
8 where we sit in terms of public equities at the S&P 500 in
9 particular, as of today, we're really at effectively
10 all-time highs for public equity markets.

11 In terms of valuations, the light blue dots that
12 we show on this chart are reflective of PE ratios, so
13 price to earnings per share ratios. This is a valuation
14 metric that's fairly common. In the equity markets,
15 generally speaking higher numbers reflect higher
16 valuations of equities. Lower numbers reflect lower
17 valuation levels. And so when you look at the dot to the
18 right there at 23 times, that's on the higher end of
19 valuations over this span of time.

20 And so what does this -- what does this chart
21 tell us? And, you know, while it's oftentimes very
22 difficult to project forward in terms of the forward
23 outlook for public equities, as a general matter, we do
24 think that there could be potential for more downside than
25 upside in public equity markets, just given, you know, the

1 the end of April of 2021.

2 But one thing I will note, if you look at the
3 table in the top right, that 1.63 percent for the 10-year
4 treasury at the end of April was still below average
5 levels for -- over this span of time.

6 One thing I wanted to touch on before moving on
7 from this page is just giving a little context in terms of
8 how we think about valuations for bonds, for treasury, you
9 know, bonds in particular. Generally speaking, lower
10 rates imply higher valuations for treasuries. Higher
11 rates tend to imply lower valuations. So there --
12 generally speaking, for bonds, there's an inverse
13 relationship between bond price and the yield that
14 treasuries are yielding at a particular point in time.

15 And so the simple way that I like to think about
16 this is if you were holding a fixed rate bond that's
17 yielding two percent, if the prevailing interest rates and
18 markets increased to three percent, you know, generally
19 asking the question how would your instrument that you're
20 holding, would it be worth less or more? And generally
21 speaking, it would be worth less, right, because market
22 participants can get a higher yield than the bond that
23 you're holding at this point in time.

24 And so I give that example just to put in some
25 context where we are on the markets, given the lower --

1 generally lower level of interest rates again below the
2 average over this span of time. That would imply that
3 treasuries are more highly valued than they have been over
4 this span of time, again implying the potential for more
5 downside to bond prices than upside from here.

6 CHAIRPERSON TAYLOR: Kareem, I do have a
7 question.

8 MR. RAYMOND: Okay. Terrific.

9 CHAIRPERSON TAYLOR: Mr. Jones, go ahead.

10 COMMITTEE MEMBER JONES: Yeah. Thank you, Madam
11 Chair. Yeah. Thank you, Mr. Raymond. Yeah. On this
12 chart looking at the -- I know this covers 2016 through
13 April 2021. But because the risk-free interest rates
14 forms the foundation for determining ultimately our
15 discount rate, and so looking at this chart just concerns
16 me that is this going to be a long-term situation going
17 forward? I know this is only through 2021, but what are
18 your views in terms of this interest rates remaining slow
19 going forward and then in some cases even negative,
20 because that's going to create some challenges when we
21 have that discussion on our discount rate.

22 MR. RAYMOND: Yeah. Yeah. No. Thanks very much
23 for that question. And we'll touch on this a little bit
24 as we go on. But, you know, look, I think we certainly
25 have been coming through a period as were -- as displayed

1 by this chart. But if you go back even further, we've
2 generally been on a pretty steady decline of interest
3 rates and discount rates over a number of years.

4 You know, we do expect and now a little bit
5 switching into kind of how we think about from a research
6 perspective, we do think that interest rates will tick up
7 gradually to the end of the year. I think we're
8 forecasting around 1.9 percent for the 10-year and into
9 2022 into the low two percent level for interest rates.

10 And so, you know, we would anticipate that
11 interest rate levels would rise from where they are right
12 now. But we don't anticipate that interest rates are
13 going to get back to the levels seen in, you know, a
14 number of years past any time soon, so some gradual
15 increase, but not a significant increase, we wouldn't
16 expect.

17 COMMITTEE MEMBER JONES: Thank you.

18 CHAIRPERSON TAYLOR: Does that answer your
19 question, Mr. Jones?

20 COMMITTEE MEMBER JONES: Yes. Yes. Thank you,
21 Madam Chair.

22 CHAIRPERSON TAYLOR: Thank you.

23 I also had a question, Mr. Raymond.

24 MR. RAYMOND: Yes, please.

25 CHAIRPERSON TAYLOR: As the interest rates are

1 low and we're looking at maybe them going up through 2022,
2 will that mitigate or is the choice to do that to mitigate
3 the inflation that we're looking at?

4 MR. RAYMOND: That's a great question. So what
5 we're showing here is really prevailing market rates. And
6 so this is, you know, effectively dictated by supply and
7 demand balances for fixed income instruments. I think
8 what you perhaps may be referring to is how the Fed might
9 think about rates, and using -- and this now we're talking
10 on the shorter end of the interest rate curve, which is
11 where the Fed has more control, kind of how are they
12 thinking about raising rates to potentially deal with
13 inflation getting out of control.

14 And, you know, I think what we'll -- what we are
15 projecting in that respect is right now rates on the
16 shorter end, the Fed is being pretty accommodative in
17 terms of how they're thinking about interest rate levels.
18 We are projecting or the market is implying that they
19 expect the Fed to raise interest rates on the shorter end
20 of the curve in late 2022, early '23. That has come in
21 earlier than the market had originally anticipated. And I
22 think that's in part a reflection of higher inflation that
23 we have seen year-to-date and in recent periods.

24 So, yes, to answer your question, we would
25 anticipate that the Fed would potentially intervene to

1 raise rates to the extent that they saw inflation getting
2 out of control.

3 Right now, though, I think the view is that
4 inflation is consistent with what they would expect in the
5 context of the recovery that we're in. But we would
6 expect the Fed to take further action to the extent that
7 they saw inflation getting out of control.

8 CHAIRPERSON TAYLOR: Okay. Thank you.

9 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: And
10 maybe I'll just -- I'll just jump in there quickly, if
11 that's all right. Mr. Jones, to your question also,
12 remember what Mr. Raymond described that if you own a two
13 percent interest -- interest -- two percent interest rate
14 instrument and rates go to three, your instrument will
15 actually be worth less in value. It will sell off.

16 So while the increase in rates will help us from
17 a forward-looking return standpoint on, you know, interest
18 rate instruments, getting there actually means our
19 instruments losing value. So that's something to just be
20 aware of.

21 And then, Ms. Taylor, to your question on
22 inflation, you know, that is front and center as I
23 mentioned in my opening comments. That's the area that
24 we're spending a whole lot of time on and something you
25 will see. And I'm happy to see that Sterling Gunn was

1 able to be pulled forward. Apologies to all for not
2 having asked for that. When I saw Kareem, I thought we
3 were set, but that's my mistake.

4 And -- but Sterling and his team are working a
5 lot on things to stay. All right, what can we do for the
6 portfolio if we start seeing that inflation. Emerging
7 markets is one of those things. And certainly we're
8 spending a lot of time on emerging markets. Private
9 assets, and specifically real assets, is another one that
10 we know that some of those come with some of the things
11 that are a little less comfortable us. But certainly
12 thinking about inflation and certainly thinking about what
13 we can do to both keep returns in the portfolio and then
14 also hedge potential inflation with risk is something that
15 is -- the team is spending a lot of time on.

16 CHAIRPERSON TAYLOR: Great. Thank you.

17 Go ahead, Mr. Raymond.

18 MR. RAYMOND: Great. Thank you very much. So
19 maybe if no other questions on the interest rate side,
20 maybe we can flip ahead to page five.

21 --o0o--

22 MR. RAYMOND: So here on page five -- and this is
23 kind of the last of the market backdrop slides that we'll
24 cover. Here, we're taking a look at credit spreads. And
25 so these are basically the spread over and above U.S.

1 treasury yields that investors are expecting either as an
2 investment grade investor or as a high yield investor.

3 And so just to walk you through the chart, the
4 light blue line is reflective of BB corporate bond
5 spreads. So think about this more like high yield
6 investor bonds. And the dark blue line is reflective of
7 investment grade or AA corporate bond spreads.

8 And generally speaking, higher spreads imply
9 higher market stress and lower valuations for corporate
10 bonds. And lower spreads tend to imply less stress in
11 markets and lower valuations for bonds.

12 And so one of the most noticeable things about
13 this chart is, of course, the spike that you see in Q1 of
14 2020. That's reflective again of COVID-19 as market
15 participants, you know, obviously got more nervous and
16 worried about the aftereffects of COVID-19, they demanded
17 a higher yield from bond investors for taking on that
18 risk. And so that's really what that's related to.

19 What you will notice post that Q1 2020 time
20 frame, those credit spreads both on the AA and BB side
21 have come back down. And where we sit right now, AA and
22 BB spreads, if you look at the chart -- or the table on
23 the top right, the current spreads right now are also
24 below the averages that we've seen over this span of time.
25 And so again, consistent with the trends that we've been

1 talk about throughout this presentation, lower spreads
2 would imply higher valuations for corporate bonds. And so
3 that would imply as well, potential for more down --
4 potential of downside risk, to the extent that spreads
5 were to widen out versus upside of spreads tightening from
6 where they are currently.

7 Let me pause here before I move on to the next --
8 to the next section.

9 CHAIRPERSON TAYLOR: It doesn't appear I have any
10 questions.

11 MR. RAYMOND: Okay. Terrific. So maybe with
12 that, why don't we flip ahead to slide seven.

13 --o0o--

14 MR. RAYMOND: And so, you know, I think what
15 we'll do here in this next section is provide some context
16 in terms of how Goldman Sachs Asset Management strategic
17 long-term assumptions have evolved over this span of time,
18 2016 to the current.

19 And so here what we're doing is we're reviewing
20 our strategic long-term assumptions across various asset
21 classes, equities, fixed income, real estate, and private
22 equity. And, you know, I think what you see, by and
23 large, is a fairly consistent pattern with returns for
24 most of these asset classes going down between 2016 and
25 2020, again, largely due in the more recent period to the

1 after effects of the COVID-19 pandemic as market
2 participants, you know, were baking in or our assumptions
3 baked in the increased stress that the markets were under
4 during the heights of the pandemic.

5 I would say consistent with some of what we saw
6 on some of the prior pages, we have seen a bit of a
7 rebound in Q1 of 2021. And this is consistent with the
8 recovery of markets in the early part of this year. But
9 one thing I will note, and this is sort of denoted by some
10 of the lines on the charts, while we have seen a rebound
11 in Q1 of 2021, notably we have not seen returns from many
12 of these asset classes get back to 2016 levels. And so
13 again, it just kind of speaks to the reduced return
14 environment that we're seeing currently where we are in
15 the market.

16 The one exception that I will say here is on the
17 right side of the page you'll see for private equity, you
18 did -- you do see there for that asset class a fairly
19 steady increase in returns over this span of time. We
20 think this is attributable to a couple different factors.
21 One, generally speaking, because we are -- we have been in
22 a lower returning and a lower yielding environment, we see
23 many investors searching for more yield and for more
24 return. Generally speaking, private equity tends to be an
25 asset class that has higher returns on average and so we

1 saw higher allocations to that asset class to help offset
2 some of the lower returns or the return expectations
3 otherwise.

4 We also saw that some investors had a slightly
5 higher willingness to take more risk, again in part
6 because the lower -- the lower return environment in other
7 asset classes. And so we think that has contributed to
8 how private equity or return expectations for private
9 equity have evolved over this span of time.

10 CHAIRPERSON TAYLOR: I do have a question.

11 MR. RAYMOND: Yes.

12 CHAIRPERSON TAYLOR: So, Ms. Middleton, go ahead.

13 COMMITTEE MEMBER MIDDLETON: All right. Thank
14 you, and thank you, Mr. Raymond. Very good presentation.
15 Looking at the expected returns for private equity, how
16 much longer do you expect private equity to continue to
17 grow at this kind of rate and what is the volatility of
18 private equity in comparison to other asset classes?

19 MR. RAYMOND: Yeah. Thanks very much for that
20 question. Yeah. Look, I think some of the trends that
21 have been leading to those, you know, higher return
22 expectations for private equity we would expect to
23 persist, right? On the one hand, you know, as we're sort
24 of demonstrating in this presentation, we do expect for
25 many asset classes, equities in particular, to be in a

1 slightly lower return environment than we were
2 historically, you know, given where funded status levels
3 for many public pension plans, for example.

4 We do see investors increasingly looking for --
5 to allocate to asset classes that have the capacity to
6 generate higher returns. So, you know, in that respect,
7 we're seeing a lot of money flow into the private equity
8 asset class. We expect that that trend will continue over
9 the next, you know, few years. And so, as a result, we
10 would expect that return expectations in this asset class,
11 coupled with the fact that investors are continuing to be
12 comfortable with taking more active risk, we think that
13 will -- that will persist over time.

14 In terms of risk, you know, I think you pointed
15 it out quite well that, you know, I think the -- you know,
16 generally with the higher return, you know, particularly
17 relative to public market equities, we would expect higher
18 volatility with this asset class. But generally speaking,
19 we do see that private equity as an asset class with the
20 higher returns and the higher risk, generally speaking,
21 has higher risk-adjusted returns. So we talk about Sharpe
22 ratios as a measure of risk-adjusted returns. So you're
23 getting adequately compensated in terms of that higher
24 return for taking that incremental risk. So we would
25 expect, you know, higher risk, but perhaps getting fairly

1 compensated you know for that increased risk by higher
2 returns.

3 COMMITTEE MEMBER MIDDLETON: As more competition
4 comes into the private equity market, more pension funds
5 and others moving to -- in this direction, does that also
6 complicate and exacerbate the risk that we have?

7 MR. RAYMOND: Yeah, it's a terrific question.
8 And, look, I think what you'll see -- and I think this
9 goes for many of the asset classes, but in some ways
10 private equity in particular, you oftentimes see a pretty
11 wide dispersion, right, between the best performing
12 managers and the lowest performing managers. And so I
13 think -- you know, I think this is what speaks to, you
14 know, the appropriateness and the importance of manager
15 selection and the due diligence of the team to select, you
16 know, quite frankly the best managers and allocate capital
17 to those best managers.

18 You know, I think we -- despite the fact that we
19 are seeing a lot of capital flow into these asset classes,
20 we have historically and we would expect on a go-forward
21 basis to see a bit of dispersion of return outcomes. And
22 so for the highest skill-based managers with the best
23 track records and the best ability to source, you know,
24 deals on a proprietary basis, you know, I think that's
25 where the returns are going to flow to.

1 And so, you know, I think you're right it does
2 increase the risk profile, but I think it puts more onus,
3 you know, quite frankly, on the team to focus on, you
4 know, manager selection and identifying the best -- the
5 best managers out there.

6 COMMITTEE MEMBER MIDDLETON: Okay. Shift gears
7 to real estate. There's been a lot of media speculation,
8 and just speculation among people, as to what the future
9 of commercial real estate is going to be as work starts to
10 evolve in the aftermath of COVID, what's your best
11 assessment of where the real estate market is going to go?

12 MR. RAYMOND: Yeah. Yeah. No. Very timely
13 question for sure. Look, you know, I think the chart --
14 and this is a chart reflective of public real estate. You
15 do see a bit of the volatility and some of the
16 implications quite frankly of the impact on commercial
17 real estate and some of the other, you know, retail, you
18 know, real estate as well have really been impacted,
19 right, by COVID-19 in particular, and some of that is
20 reflective of the lower return profile that we show on
21 this chart for real estate as an asset class.

22 Now that being said, you know, I think in part,
23 now maybe shifting a little bit to, you know, private real
24 estate and some of the other asset classes, we do think
25 that this does create an opportunity to take advantage of

1 some of the opportunities as we see this dislocation
2 occurring in markets. Kind of consistent with the
3 comments that I made on the private equity side, I think
4 this just heightens the focus on the sectors within -- the
5 subsectors, if you will, within real estate to focus on --
6 you know, as always, a heightened focus on the managers
7 that you are partnering with to get you access to the
8 relevant opportunities.

9 But, you know, I think in many respects, this can
10 create, you know, more opportunities where we are to
11 benefit from the dislocation of markets and try to
12 position the portfolio in a manner that takes advantage of
13 this -- of this new market environment for a real estate.

14 COMMITTEE MEMBER MIDDLETON: Thank you, sir.

15 MR. RAYMOND: Thank you.

16 CHAIRPERSON TAYLOR: Thank you, Ms. Middleton.

17 I have another question from Ms. Ortega.

18 COMMITTEE MEMBER ORTEGA: Thank you, Madam Chair.
19 Thank you, Mr. Raymond.

20 I just had a question about what the long-term
21 return assumption is that we're using here and just
22 compared to the four-year gaps that are in this chart is
23 what is the kind of long-term assumption period?

24 MR. RAYMOND: Yes. No. Thanks for that
25 question. Yeah, so all of these returns are based on sort

1 maybe this will answer some of the -- or put some
2 additional color on some of the questions that were asked,
3 in terms of how we're developing these long-term strategic
4 assumptions. Here on page nine, we'll focus on some of
5 the quantitative factors that influence our assumptions.
6 And then we'll end with some qualitative factors as well.

7 And so here on page nine, as I mentioned, we're
8 going to focus on qual -- quantitative factors and how --
9 in particular, we're going to take a look at our U.S.
10 large cap equity assumptions and how they've evolved, kind
11 of disaggregate some of the components of that return
12 profile.

13 As I mentioned just a second ago, you know, our
14 assumptions are built on a risk-free rate plus risk premia
15 framework. And so if you look at the risk-free rate
16 section, sort of consistent with what we talked about in
17 earlier parts of the presentation as interest rates have
18 evolved and have declined, you know, quite frankly,
19 between Q4 2016 and Q4 2020, you see that our risk-free
20 rate assumption has declined commensurately.

21 And then as rates have recovered in Q1 of 2021,
22 you also see that our risk-free rate assumption has
23 rebounded to historic levels, right? So that can account
24 for some of the volatility that we're seeing in our
25 assumptions.

1 The next component, at least in this particular
2 case, is the equity risk premia assumptions. So this is
3 the premia that equity investors would -- are looking for
4 over and above the risk-free rate to get compensated for
5 the incremental risk that they're taking. And so while we
6 have seen the equity risk premia to be fairly stable,
7 historically, we did see that the -- our equity risk
8 premia assumption came down in Q1 of 2021 from 5.3 percent
9 to five percent. And again, this is sort of reflective of
10 the lower assumed return profile for equities that
11 investors are likely going to require on a go-forward
12 basis.

13 And so when you kind of put this all together on
14 the right side of the page, consistent with what we've
15 been talking about, while we have seen some volatility in
16 return assumptions, we're generally seeing a gradual
17 decline in the expected return assumptions for these risk
18 asset classes. But hopefully, this gives you some context
19 in terms of some of the contributors to the changes of
20 those assumptions over time.

21 Any questions on this page?

22 COMMITTEE MEMBER JONES: Can I ask question?

23 CHAIRPERSON TAYLOR: Mr. Jones, go ahead.

24 COMMITTEE MEMBER JONES: Yeah. Thank you, Madam
25 Chair. Yeah, Mr. Raymond, you know, you made reference to

1 the risk-free rate. We under -- at least, I understand
2 what's driving those numbers. But when you look at the
3 equity premium risk premium rates, and I can understand if
4 you have historical data, how you come with these numbers,
5 but going forward --

6 MR. RAYMOND: Yeah.

7 COMMITTEE MEMBER JONES: -- what is that equity
8 risk premium based on? Is it surveys from investors or
9 it's long-term assumptions by whom? You know, where is
10 that information coming from?

11 MR. RAYMOND: Yeah. No. Thanks very much for
12 that question. Yeah, so it's -- it is more mathematical,
13 if you will, in terms of how we're taking a look at that.
14 I'll reference a little bit some of what we talked about
15 on the first page, when we talked about how equity markets
16 have evolved over time.

17 And in particular, I'm going to point out the
18 equity PE ratio numbers that I referenced, right? So as I
19 mentioned previously, equity PE ratios are effectively a
20 valuation metric. It's comparing the price of a stock or
21 an index relative to the earnings per share that investors
22 could expect on a go-forward basis.

23 And so there is a formulation in terms of how we
24 think about equity risk premia assumptions. You know, I'd
25 say one component of that is looking at valuations, right?

1 And so taking a current look in terms of the premia that
2 equity investors are looking for. Generally speaking,
3 higher valuations to equities imply a lower yield that
4 investors are willing to accept going forward for
5 equities, okay? So that's one of the factors that's
6 influencing how our equity risk premia assumptions are
7 going to evolve over time.

8 We're also taking into context changes in
9 interest rate levels. One of the things that we talked
10 about and is -- is the impact that increases in interest
11 rates have on current valuations for riskier asset
12 classes. And generally speaking, if your risk-free rate
13 or the discount rate that you're using to bring future
14 earnings to the present, if those go up, then the present
15 value of those return streams are actually going to be
16 lower than they were before interest rates, or the
17 discount rate, increased over time.

18 And so that is also another factor that's
19 impacting how that equity risk premia assumption evolves
20 over time. And so, you know, hopefully to answer your
21 question, it's not sort of a qualitative factor. It is
22 more quantitative in nature, taking into consideration
23 both the current valuation level of markets and the
24 expected future forward view of interest rates. Both of
25 those factors are having impact on what our equity risk

1 premia assumption looks like. And so those two factors
2 that I described led to that equity risk premia assumption
3 coming down a little bit about, consistent with kind of
4 what we've been talking about in terms of how valuations
5 are playing out in the markets currently.

6 COMMITTEE MEMBER JONES: And so -- and given that
7 viewpoint, are there adjustments made to reflect potential
8 black swan events, because, you know, it used to be a
9 hundred years, and now it's 10 years, and it look like
10 it's every year --

11 MR. RAYMOND: Yeah.

12 COMMITTEE MEMBER JONES: -- there's a black swan
13 event, that -- so how do you factor the potential of those
14 events occurring in terms of these -- this strategy?

15 MR. RAYMOND: Yeah. No, Mr. Jones, I appreciate
16 that commentary. So, you know, I guess the way I'd answer
17 that is kind of when I talked about how our assumptions
18 evolve. While they're long term in nature, we do adjust
19 them on a quarter-to-quarter basis, right? And so on this
20 page, you do see that, you know, to your point around
21 black swan events, in Q4 of 2020, particularly as it
22 relates to the risk-free rate assumption, that's really
23 reflective in many ways of the sort of black swan event
24 that we saw in COVID-19, right? And so you see that
25 reflected in the risk-free rate assumption coming down

1 quite significantly between Q4 2016 and Q4 2020.

2 And so these assumptions are going to take into
3 consideration current market environments, which are
4 reflective of those events. You know, I would say our
5 assumptions are probably going to be a little more lagged
6 in that respect. You know, we're not going to per se,
7 sort of forecast out and make some expectation in terms of
8 how many black swan events that may be occurring, but
9 those -- because of that heightened volatility
10 environment, they are sort of reflected in the assumptions
11 that we generate on a quarter-to-quarter basis. You know,
12 as the market environment becomes more volatile, our asset
13 classes assumptions are going to reflect that volatility
14 on a current basis. If volatility starts to dampen a
15 little bit, that will also be reflected in terms of how we
16 project out on a go-forward basis.

17 COMMITTEE MEMBER JONES: Thank you.

18 CHAIRPERSON TAYLOR: So, Mr. Raymond, I think I'm
19 going to sort of continue with Mr. Jones' train of thought
20 here. So basically -- and I think you're using language
21 that kind of confused me a little bit. But in looking
22 at -- investors are looking for a lower yield. So
23 basically after the quote/unquote black swan event of
24 2020, which was the pandemic, then we had this rally --
25 this big rally and a lot of confusion. There were

1 different monetary policies that, you know, caused the
2 rally, et cetera.

3 So are -- so what we're looking at is an
4 overvalue of the market at this point. That's what you're
5 saying. So the expectation is maybe not necessarily a
6 huge black swan event, but just a slow -- it could be, but
7 it could be also a slow decline in the values, is that --

8 MR. RAYMOND: Yeah, Ms. Taylor, I think you've
9 articulated it very well. I think, you know, harkening
10 back to that original slide that I -- that I shared on
11 equity market valuations. Because of that very strong
12 V-shaped recovery that we had coming out of the lows of
13 the -- of the pandemic, we are sitting now, particularly
14 for U.S. large cap equities, really at all-time highs from
15 a level of the S&P 500, but also from a valuation from a
16 price-to-earnings ratio perspective.

17 And so as a result, given that equity markets are
18 fairly fully valued, we're not saying that, you know,
19 returns are going to be negative, but we are saying that
20 returns are likely going to be lower for U.S. large cap
21 equities than they have been historically, in part because
22 we're starting from a higher valuation base than where we
23 were previously. So I think the way you articulated it is
24 spot on.

25 CHAIRPERSON TAYLOR: And I just want to get an

1 opinion on could there be -- I mean, I know we're all
2 doing guesswork here, but could there be, because of this
3 overvalue, are we looking at a possible -- another black
4 swan event in the next few years?

5 MR. RAYMOND: Well -- and perhaps maybe the way
6 I'd answer it, because, look, I don't want to claim on
7 this call to be a prognosticator, but I think the way we
8 would think about it is the risk profile, right? What are
9 some of the factors that could lead to an improved return
10 environment and perhaps some of the factors that could
11 lead to a more constrained environment on a go-forward
12 basis. And that's what we try to touch on actually on --
13 on the next page.

14 And so I don't if there are any other questions
15 specific to this page, but I'm happy to touch on some of
16 those factors on the next page.

17 CHAIRPERSON TAYLOR: Sure. Go ahead. It doesn't
18 look like I have anymore questions.

19 MR. RAYMOND: Okay. Terrific. So, yeah, if --
20 why don't we flip ahead to page 10.

21 --o0o--

22 MR. RAYMOND: And so, Ms. Taylor, as I was
23 describing on the prior page, you know, again, you know,
24 certainly not expecting to be prognosticate --
25 prognosticating around, you know, what we think the future

1 might hold, but what we're trying to do here is highlight
2 some of the factors that we think are supportive to a
3 strong and positive returning environment on a go-forward
4 basis. And then, you know, on this page also highlighting
5 some of the risk factors. Just visually, you can see a
6 little bit of an imbalance between the risk factors and
7 the supportive factors. And so that gives you some
8 context in terms of how we're thinking about, you know,
9 the risk environment.

10 But maybe what I'll do is I'll tick through both
11 the supportive factors and some of the risk factors and we
12 can talk through kind of where that leaves us on a
13 go-forward basis.

14 And so, you know, in terms of some of the
15 supportive factors, and I think, you know, Dan had
16 highlighted this earlier on in the presentation, you know,
17 look I think with all the fairly significant fiscal and
18 monetary stimulus that we've had, you know, quite
19 understandably, as a result, and part of the COVID-19
20 pandemic. So what I'm talking about here is the \$1.9
21 trillion dollar American Rescue Plan, a number of
22 discussions in Congress about trillion plus dollar further
23 stimulus in the form of infrastructure. We've talked
24 about the Fed keeping rates at least in the near term, you
25 know, near zero. Those are all stimulative factors that

1 could be supportive factors for future growth in markets
2 and the return environment.

3 The second factor is really global GDP growth.
4 And again, this is -- this is part of a function of
5 governments and policymakers globally really stepping in
6 to support their economies in this environment.

7 And so just for some context Goldman Sachs
8 research for U.S. GDP we're estimating around a seven
9 percent GDP growth for 2021 and around a five percent
10 growth of U.S. GDP in 2022. So, you know, pretty
11 materially above historical averages of GDP. So, you
12 know, strong global GDP growth we also think is a
13 supportive factor.

14 The last bit is corporate earnings growth, right?
15 So public equities in particular, one of the larger
16 drivers of returns on a go-forward basis is an expectation
17 for higher growth of earnings. And so on this score as
18 well, again, this is really a function of a bounce-back
19 from the lows of last year, but we're expecting quite
20 substantial growth of corporate earnings in 2021, and then
21 a more muted but still elevated five percent growth rate
22 in earnings growth expectations for the S&P 500 in 2022.
23 So, you know, a number of factors for sure that we think
24 are supportive of positive return environment on a
25 go-forward basis.

1 Maybe just to touch on some of the risk factors
2 though. You know, there are a number here, the first of
3 which, and we've been talking about it throughout this
4 presentation is the potential for and the expectation of
5 higher rates and inflation. And so, you know, I touched
6 on it earlier in the presentation, the ten-year treasury
7 yield at least through April of this year, was up around
8 70 basis points. That's moderated to around 50 basis
9 points up in the 10-year treasury yield year-to-date, but
10 still higher than where we were before.

11 Similarly, in part as a result of the rebound in
12 the COVID-19, you know, time frame, we are seeing both
13 headline and core inflation, you know, pick up, such that
14 we're expecting that headline inflation, so that's
15 incorporating both food and energy, in addition to other
16 forms of inflation is going to be around 2.7 percent
17 for -- through 2021 and then moderate a bit to two percent
18 out to 2022.

19 And so generally speaking, higher inflation,
20 higher rates generally has depressive effects on the
21 return profile for other asset classes. All right. In
22 terms of the Fed, while we've talked about at least
23 historically, a pretty accommodative Fed, I mentioned
24 earlier in the presentation that we would expect that as
25 inflation continues to rise, that the Fed will step in and

1 increase short-term interest rates. We're expecting -- or
2 at least the market is expecting maybe late 2022, early
3 2023 is when the Fed will start to hike rates to deal with
4 the inflation outlook. And so again, higher rates,
5 generally speaking, can have negative effects on the risk
6 markets.

7 I also talked about earlier in the presentation
8 just the higher -- and we were touching on this on the
9 prior page, the higher starting level and valuation level
10 for public equity markets. You know, given that we at
11 some of the highs that we've seen for the S&P 500 over its
12 history, highs of valuations, you know, we're just --
13 while we would expect that equities are going to have
14 positive expected returns, we think that there is the
15 potential for more downside risk that upside, given that
16 the heightened valuations that we're starting at.

17 The next one, on the flip side of some of the
18 fiscal stimulus that we're seeing in markets, many of the
19 pay-fors, so to speak, that many policymakers are talking
20 about to pay for this increased stimulus is increase taxes
21 on both the corporate side and potentially on individual
22 tax rates, perhaps on the corporate side going from 21
23 percent to perhaps 25 or 28 percent. And so that can also
24 have a depressing impact on earnings on a go-forward
25 basis.

1 The last two, I'll just touch on here is, you
2 know, ongoing geopolitical risks. You know, President
3 Biden is with the G7 currently. Hot topics being China
4 and Russia, you know, continued volatility in the Middle
5 East we all think, you know, could be areas of potential
6 risk for global growth on a go-forward basis.

7 And then the last one I'd mention, and certainly
8 not least, is just, you know, ongoing COVID and pandemic
9 risks. You know, certainly while in the developed world
10 we're seeing progress in terms of reductions of risk as it
11 relates to COVID-19, less so in the developing markets,
12 with new variants, you know, obviously impacting, you
13 know, communities and causing risk to populations, but
14 certainly risks to markets as well.

15 And so maybe I'll just, you know, pause here and
16 kind of end the presentation by sort of, you know,
17 summarizing sort of what we've gone through. You know,
18 while we have had a number of blips in the market, most
19 notably with COVID-19, because of some of these risks that
20 we've highlighted throughout the presentation, you know,
21 generally speaking, while we are seeing positive expected
22 returns across many of these asset classes, we are seeing
23 a general reduction in that return environment, since the
24 last time that you all did this asset liability study.
25 And so that's kind of reflective in some of the return

1 profile that we've highlighted in the course of this
2 presentation.

3 I see a couple of questions coming through, but
4 let me -- let me pause there to answer any questions.

5 CHAIRPERSON TAYLOR: Sure. So real quick, I have
6 a question before -- I don't see any questions on my side
7 coming through. But -- so the highly -- higher likely
8 corporate individual taxes should be mitigated if what you
9 said earlier was true, and the next stimulus package of
10 the infrastructure bill, because then --

11 MR. RAYMOND: Yep.

12 CHAIRPERSON TAYLOR: -- there's money, right? So
13 that sort of mitigates that on that side.

14 MR. RAYMOND: Yeah.

15 CHAIRPERSON TAYLOR: So hopefully that would even
16 that out. Ongoing geopolitical risk it seems like we had
17 that going on for just a few years and we can't seem to
18 get rid of that.

19 MR. RAYMOND: Yeah.

20 CHAIRPERSON TAYLOR: And, of course, the pandemic
21 I understand. And you think because of inflation, the Fed
22 is going to be less accommodative to keeping interest
23 rates low, correct.

24 MR. RAYMOND: Yeah, that's right. Look, I think,
25 you know, the Fed -- you it's this concept of the dual

1 mandate, you know, trying to maintain full employment, but
2 also trying to keep inflation at bay. And so, you know,
3 it is a bit of a -- you know, offsetting dynamic, where
4 you, in part, create stimulus to increase employment,
5 right, in the markets. But if the markets become
6 overheated, you wouldn't want inflation to start
7 increasing like it did back in the seventies, for example.

8 We're certainly not anticipating any of that, but
9 that is, you know, one of the key aspects that the Fed is
10 looking after, trying to mitigate it against the economy
11 overheating and using short-term interest rates as a tool
12 to try to, you know, rein in the market to the extent that
13 it starts to overheat.

14 CHAIRPERSON TAYLOR: Okay. Thank you. I
15 appreciate that. I think I have a question from Eraina
16 Ortega.

17 COMMITTEE MEMBER ORTEGA: Yeah. Thank you.
18 Thank you, Ms. Taylor.

19 My question I think is actually for staff, so
20 maybe Dan. I just wondered if there was a plan to look at
21 these assumptions and kind of bring back what they would
22 mean for consideration of the -- of our performance, of
23 what our outlook might be, or as part of the ALM, or --
24 any plan to do that?

25 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

1 Yeah, that's a -- that's a great question, Ms.
2 Ortega. And, yes, the answer is emphatically yes. So
3 this time, we wanted to have an outside expert come in and
4 talk about kind of some of the expected returns and the
5 like. In July, we will have another panel of experts
6 talking about capital market assumptions and sort of how
7 they build them up and some of the theory behind them.

8 From there, then we're also going to have our
9 survey, so our staff goes out and does a survey of --
10 Sterling, can answer this more clearly, but I think it's
11 11, 12, 13 different market providers, CMA providers.
12 That survey will be in the July off-site. And then also
13 we're going to have a session on just kind of the overall
14 ALM process and how to think about risk balancing and the
15 like.

16 From there, we come in September to kind of
17 finalize the CMAs, and then also talk through potential
18 portfolios and get a sense of those risk appetites, with
19 the thought being to sort of adopt a new strategic asset
20 allocation. The original plan was November, but certainly
21 it's important that we get this right. If we need more
22 time, we certainly can. But the idea would be to adopt an
23 asset allocation based on these expected returns and risk
24 appetite somewhere around the end of this year.

25 COMMITTEE MEMBER ORTEGA: Thank you.

1 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: And
2 all of this is part of the staff's input. So certainly --
3 certainly -- as I mentioned, this is something we're going
4 to spend a lot of time on here in 2021. This is among the
5 most important things we can do together for this year.

6 COMMITTEE MEMBER ORTEGA: Yeah. And I appreciate
7 that. And I understand some of the longer term planning,
8 but very much think it would be helpful with a
9 presentation like this to then really hear what is --
10 everything we've just heard, what does that mean for us,
11 if we agreed with these assumptions, or I think it is
12 helpful to see what different types of thinking result,
13 when you actually apply the numbers to our fund.

14 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:
15 Certainly. And I think the first step of seeing
16 that will be July. And then we'll definitely look for
17 direction in terms of other areas to explore, if the -- if
18 that doesn't get the -- you know, the Investment Committee
19 everything that they need for September. And as I say, we
20 have several -- this is on every -- every time we're
21 together, this is -- this is on the agenda for this year.

22 COMMITTEE MEMBER ORTEGA: Great.

23 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

24 Thank you.

25 CHAIRPERSON TAYLOR: And then, Dan, can I ask you

1 a question. You said bring it to us in September. You're
2 not looking for a vote in September, right? You're not
3 look for a vote till later in the year.

4 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

5 Correct. In September, we're looking to adopt a
6 set of capital market assumptions that we will use to
7 build portfolios, but yes, it will be -- then it will also
8 be starting to talk about sample portfolios in September,
9 with the idea being to adopt a strategic asset allocation
10 very likely in November, depending on whether the Board
11 has gotten everything that they need in July, September,
12 November.

13 If we need to push that into, you know, say
14 February, March, if we need to call a special meeting,
15 certainly we know that Ms. Taylor you have the authority
16 to call a meeting at any time with ten days notice, we'll
17 certainly look to -- look to have you -- you know, we'll
18 look to be as responsive as we can be to these to get as
19 much data in front of the Board to make as an informed a
20 decision as we can.

21 CHAIRPERSON TAYLOR: Well, and I also would
22 caution us not to hurry with accepting the CMAs, because
23 that automatically triggers us to have to change the rate
24 of return usually. So I just -- I caution us against --
25 without all the knowledge that Ms. Ortega is talking

1 about, and having everything that we need, and possibly
2 also looking at impacts on our local agencies if we were
3 to adopt a CMA of 6.8, or whatever, I don't know, you
4 know, less than the seven percent, then what is that
5 impact also? I don't want to rush that, unless we know
6 how that impacts everybody as well as all other avenues
7 that we can take.

8 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

9 Certainly. And that definitely -- so let me just
10 clarify. By capital market assumption or CMA, I'm
11 referring to what we expect returns to be of all of the
12 different asset classes, what we expect the volatilities
13 to be of those asset classes, and how we expect them to
14 work together to offset one another. That, for us, is
15 what we call capital market assumptions.

16 From there -- to your point, Ms. Taylor, from
17 there, we would look to using those capital market
18 assumptions and using potential portfolios and risk
19 appetites, look to adopt a strategic asset allocation and
20 that's what would set that discount rate, and completely
21 agree, certainly working closely -- you know, Michael
22 Cohen and the Financial Office, sort of lead this body of
23 work, bringing the Actuarial Office, and the investment
24 office together as we work through this in an integrated
25 way. We would have all of that information for your

1 consideration as we look to adopt a discount rate, and
2 that would be certainly November, or to your point, if
3 more time is needed, we definitely do not want to rush it,
4 because of a potential impact.

5 CHAIRPERSON TAYLOR: Right. Right. I just want
6 to caution us, because the last time we adopted CMAs, we
7 went right into Investment Office telling us we must
8 reduce the rate of return. So I just -- I just want to
9 caution us to be careful that, yes, of course, we're
10 saying that we agree that this is our future forecast,
11 that that doesn't automatically put us in a position to
12 have to reduce the rate of return, so...

13 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

14 Agreed. And our -- and our goal certainly will
15 be to also bring you as many -- to not have a we must, but
16 to bring as many opportunities as we can to help mitigate
17 that. And which is why I talk about things like emerging
18 markets, I talk about things like private assets, all of
19 those to Mr. Raymond's point expected returns in private
20 equity we know are higher and that we know that comes with
21 some challenges and also things that we don't terribly
22 like. But the idea will be for us to give you as many
23 degrees of freedom as you can, given what the markets are
24 providing us.

25 CHAIRPERSON TAYLOR: And our risk appetite as a

1 Board, right, so --

2 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

3 Certainly.

4 CHAIRPERSON TAYLOR: Okay. I appreciate that,
5 Dan. My next question is from Mr. Miller.

6 VICE CHAIRPERSON MILLER: Oh, thank you for the
7 presentation. I really appreciate it, Mr. Raymond. I had
8 a question and I'll try to make it coherent. But I
9 understand the choice of using the large cap to look at
10 public markets. But I'm wondering if you have any
11 thoughts about -- because it's -- we have such a more
12 broadly and deep diversified portfolio, any other slices
13 that are important or, for example, contrasting large cap
14 versus small cap, where there any really different
15 experiences over the last few years that would impact
16 forward looking with regard to that kind of chunk of the
17 market?

18 MR. RAYMOND: Yeah, Mr. Miller, appreciate that
19 question. Look, part of the reason why I focused on large
20 cap to give you that kind of, you know, quantitative
21 response, we tend to use for our assumptions, because
22 large cap U.S. equities tend to have, you know, the best,
23 and the deepest, and the longest, you know, sort of track
24 record and history of information, we use that very much
25 as a baseline, and then many of the other, you know, asset

1 classes in part are built off large cap U.S. equities.
2 And what we do is we look at betas of other asset classes
3 relative to large cap U.S. equities and sort of a model
4 portfolio, if you will.

5 And so as market betas relative to that baseline
6 portfolio adjust, that will influence the return
7 expectation for some of those other asset classes. And
8 so, yeah, look, we weren't, you know, in the context of
9 this presentation, making a -- our espousing a view of
10 large cap equities, versus small cap, or emerging markets.

11 You know, for sure we know and we certainly think
12 that those other asset classes, you know, have an
13 important role in portfolios. And we would actually
14 probably say that, you know, as in markets like this,
15 right, you know, you do, as yields for larger cap U.S.
16 equities, for example, become more constrained, going out
17 to some of the other asset classes, like small cap, like
18 emerging markets.

19 While those might have come with more risk, they
20 also potentially come with higher potential for return.
21 And so my sense is the Investment team, you know, as they
22 discuss some of the various options, those will be, you
23 know, part of the mix, because I think those do create
24 additional opportunities in an -- in an environment like
25 this.

1 VICE CHAIRPERSON MILLER: Yeah. Thank you.
2 Yeah, as I indicated, I'm pretty comfortable when -- and
3 understood why that was the selected. I was just
4 wondering if there were anything particularly notable that
5 you noticed kind of with regard to any of those other
6 segments that it might be important?

7 MR. RAYMOND: Yeah. And I think this is the last
8 thing I would mention. You know, I think the broad trend
9 that we showed in this presentation is consistent, right?
10 So generally speaking, higher returns in 2016, those, you
11 know, sort of modulating, if you will, into '20 and into
12 2021. But, yes, we do -- you know, I think the risk
13 profile, the volatility around some of those other asset
14 classes, emerging markets, small cap have also elevated in
15 the more current market environment, just consistent with
16 what we've seen in markets overall.

17 And so having consideration certainly both for
18 the return profile, but also to risk of some of those
19 incremental asset classes, will be important. But broadly
20 speaking, I would say the trends are consistent.

21 VICE CHAIRPERSON MILLER: Yeah. Thank you.
22 That's exactly what I was looking for. Thank you.

23 MR. RAYMOND: Great.

24 CHAIRPERSON TAYLOR: Great. I'm not seeing
25 anybody else who wants to ask any questions, so, Mr.

1 Raymond, I do want to thank you for the presentation.

2 That was really excellent and I appreciate it.

3 I think we're moving on at this point. And does
4 anybody have public comment on this section, Mr. Fox?

5 STAKEHOLDER RELATIONS CHIEF FOX: Madam Chair,
6 there are no public comments on item 7a.

7 CHAIRPERSON TAYLOR: Okay. So then we're going
8 to move on to 7b.

9 MR. RAYMOND: Thanks very much.

10 CHAIRPERSON TAYLOR: Thank you, again.

11 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

12 All right. Thank you, Madam Chair. And
13 definitely thank you to Kareem and to Goldman Sachs for
14 joining us today and helping us with their -- with the
15 perspectives on markets.

16 Can we please move Mr. Raymond back in the
17 attendees queue. And then can we please bring Christine
18 Gogan and Michael Krimm from CalPERS management, and then
19 also please bring Ali Kazemi with Wilshire forward in the
20 presenters queue to join Arnie and me to answer questions
21 as needed.

22 By way of background, at the request of Mr.
23 Jones, your Investment team brought forward an item on
24 tracking error to the November 2020 Investment Committee
25 meeting, where we talked about how tracking error is used

1 as a risk management tool.

2 In that discussion, we talked about a possible
3 improvement in the use of this metric, specifically around
4 measuring and constraining what we're calling actionable
5 tracking error. So at the end of that discussion,
6 management was directed to come back with potential policy
7 language to update our calculation and policy limit around
8 this actionable tracking error. And this item is a first
9 reading of potential changes to the policy statements for
10 the total fund and affiliate portfolios to be responsive
11 to that direction.

12 So Arnie Phillips, as Deputy CIO for the total
13 portfolio will be presenting this item. And as mentioned,
14 we also have Ali Kazemi from Wilshire joining us to either
15 discuss their opinion or to answer any questions that you
16 may have. So with that, I will turn it over to Arnie to
17 take us through 7B. Arnie, over to you.

18 (Thereupon a slide presentation.)

19 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

20 Thank you, Dan. Good morning. Arnie Phillips.
21 So Dan mentioned the November Investment Committee. And
22 we were directed following that very detailed presentation
23 to work with Wilshire and come back with some proposed
24 policy changes designed to further strengthen the fund's
25 governance and accountability.

1 So with that background, I'm here today with an
2 information item regarding total fund and affiliate fund
3 policy updates. I'll go ahead and summarize the deck and
4 then open it up for discussion, and conversation, and
5 questions.

6 So the following changes to the Total Fund
7 Investment Policy are proposed by staff. We recommend
8 applying actionable tracking error as a definition to the
9 Total Fund Policy active risk limit. This metric
10 represents the deliberate and controllable departures from
11 the benchmark undertaken by staff. Actual tracking error
12 eliminates the quote noise that naturally results from
13 investing in private assets where the nature of the
14 benchmarks adds tracking error simply through the
15 deployment of assets.

16 Staff believes that actionable tracking error
17 improves transparency on true shifts and strategy
18 initiative by staff, thus contributing to better
19 governance and accountability for investment decisions.
20 We don't need to jump to them right now, but slide three
21 of nine in this deck will show how actual tracking error
22 provides a clearer metric to measure decisions controlled
23 directly by staff.

24 And slide four of nine shows how the total
25 tracking error metric, so not just the actionable, but all

1 changes will provide an improved governance metric for the
2 Committee to use when measuring active risk taken by
3 Investment staff, while avoiding an internal inconsistency
4 in the policy where increased allocations to private
5 assets mechanically lead to breaches of the tracking limit
6 if we allocate enough to private assets.

7 I would like to note, and I think this is an
8 important note, that staff will continue to report
9 regularly both total and actionable tracking error as part
10 of our quarterly updates and monthly in the Insight web
11 portal.

12 In addition to the proposed revisions to the
13 Total Fund Investment Policy, staff also proposes some
14 related changes to the Judges' Retirement System II Fund
15 and the Legislators' Retirement System Fund policies.

16 These affiliate fund policies reference the Total
17 Fund Policy, so it's appropriate to update them
18 concurrently with the Total Fund Policy.

19 And finally, I would like to point out that there
20 is an opinion letter from Wilshire, included in the deck
21 and staff also briefed Meketa on the proposed changes as
22 we went along.

23 I think I'll stop there, answer any questions on
24 the presentation, the policy, or any of the enclosed
25 slides. Thank you.

1 CHAIRPERSON TAYLOR: Thank you. All right. I'm
2 not seeing any questions, so...

3 So I do have a question from Ms. Ortega.

4 COMMITTEE MEMBER ORTEGA: Sorry. I didn't get my
5 typing in there quick enough. Arnie, I had a question
6 about just looking at the tracking error changes over
7 time. And I don't know if there's -- that's going to be
8 part of the -- any future update, but just that the
9 tracking error that's been reported has gone up. I think
10 the information I have is in each year, and kind of what
11 that means, and is this proposing to address that in any
12 way?

13 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

14 Yes. So let's look at -- let me get to the right
15 slide here. So first of all, let's look at -- if we can
16 move to page three of nine, please. So the main point on
17 this slide is just naturally as we increase allocations to
18 the private assets, which is a strategic goal of all of us
19 here, given the benchmark, especially in private equity,
20 is global equity, a natural allocation to private equity
21 is going to increase our tracking error.

22 And the key benefit of this slide, and why we
23 like the actionable tracking error, is if -- where staff
24 can make controllable decisions is in the public markets.
25 And if we were to double our allocations to the public

1 markets, it would show up moving in this slide from 111 to
2 118, which doesn't really tell you much. But when you
3 look at the right side on actual tracking error, you would
4 see that we actually doubled it. So we do think this
5 metric improves it.

6 As far as overall levels, the best slide
7 probably -- I'm flipping through here. I think it's eight
8 of nine.

9 INVESTMENT DIRECTOR KRIMM: Slide nine, Arnie.

10 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

11 Slide nine. Okay. Thank you.

12 So again, even since we put this deck out, our
13 number has gone up to about 120 now and it's simply
14 because our allocation to private equity has jumped from
15 mid 7s to like 8.3. And so again, the difference relative
16 to the benchmark just inherently increases our tracking
17 error.

18 And one of the slides in here shows that if the
19 Board, through strategic asset allocation, wanted to
20 increase private equity from eight percent to 10 percent,
21 or from eight percent to 12 percent, we would breach the
22 150 limit just simply by that decision, irregardless of
23 any other decisions we made as a fund, any internal
24 Investment Office decisions. So it naturally gravitates
25 up.

1 Michael, maybe do you want to -- on page nine, do
2 you have anymore detail away from just the natural
3 allocations to the private markets and what that means on
4 why we've gone from say 80 in January up to, you know,
5 call it 120 today. I know, COVID and some of the
6 decisions we made to take advantage of some opportunities
7 there probably contributed. But Michael is probably best
8 positioned to add some value here.

9 INVESTMENT DIRECTOR KRIMM: Yeah. Hi. Michael
10 Krimm, CalPERS staff. You know, Arnie, I think you've
11 more or less captured it. One thing I would caution when
12 squinting at this chart is that at these levels, the
13 fluctuations that you see here are kind of well within the
14 overall measurement error of this metric. So, you know, I
15 think the recent increase that Arnie mentioned, which
16 isn't on here of to around 120 related to the increased
17 weight in private equity is probably the most notable.

18 But particularly if you squint at the actionable
19 one, a lot of those changes can be attributed to small
20 fluctuation in the risk model, as much as kind of any
21 substantive change in the portfolio.

22 COMMITTEE MEMBER ORTEGA: Can I ask a follow-up?
23 I mean is it -- is it fair to conclude then that the more
24 volatile private asset classes are then making it slightly
25 harder to benchmark against them and that kind of results

1 in this growing tracking error, again just looking at
2 historically I think it was 0.5 in 2018, 1.1 in 2021. And
3 I guess it feels like this is -- this propose -- or this
4 item is without much context. And so then as I think
5 about benchmark, and tracking error, and then how that
6 relates to performance, and just sort of the connection
7 between all of these issues. And if more private asset
8 classes make it harder to measure the performance and the
9 tracking error just continues to grow, it feels hard for
10 me to -- it's hard for me to see how we as a Board are
11 sort of keeping track of what's going on with those
12 investments.

13 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

14 Yeah. So, Ms. Ortega, one thing I would add and
15 we certainly see it whenever we make an investment
16 decision in the Investment Office is there's never a
17 single metric that will give us comfort when we're trying
18 to buy something. It's -- you know, you hear the -- it's
19 a mosaic of various inputs. And tracking error is
20 certainly not a one size, you know, fits all metric for
21 risk. The policy has our strategic asset allocation
22 weights. We have bands around those weights, so that's
23 another governing factor on decisions the Investment
24 Office can make.

25 Within asset classes, we have limitations on

1 interest rate risk, and fixed income. We have geographic
2 and sector restrictions in a lot of the other asset
3 classes. So there's a lot of metrics that go into
4 governing the decisions that we make. And certainly our
5 desire to be in private assets is based on a lot of what
6 we just saw in Goldman Sachs' presentation, that we do
7 think the longer term returns are appealing on a
8 risk-adjusted basis in the private assets. And so we
9 fully support and think that's the right decision, but
10 tracking error will inherently add noise to that, because
11 of the benchmark issues.

12 And so I do think it's worthwhile when you're
13 really trying to govern staff to look at the actionable.
14 But to your point, we're trying to estimate what it means
15 for our portfolio relative to our benchmark. And that is
16 where the total tracking error does give you a number. It
17 basically says 68 percent of the time, we should expect
18 returns to deviate from the benchmark according to our
19 tracking error. And so I think they're all worthwhile
20 measures. And I do think this is a -- an improvement on
21 both internal within the Investment Office, but at the
22 Board Governance level to really track the decisions that
23 the Investment Office is making.

24 But I certainly would not argue that this number
25 or any number is a, you know, one-size-fits-all and the

1 only number that any of us need to worry about. And so
2 the -- I don't know, for me, it really is an improvement.
3 But to your point, it's just -- it's one number in our
4 overall mosaic of building a portfolio and ultimately
5 doing surveillance on it and projecting what we think
6 returns will be going forward.

7 INVESTMENT DIRECTOR KRIMM: Arnie, can I make
8 maybe another point related to that.

9 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:
10 Yes, please.

11 INVESTMENT DIRECTOR KRIMM: You know, one thing
12 that's important to emphasize is this particular item
13 we're talking about here relates to tracking error as a
14 forward-looking output of a risk system. So it looks at
15 today's position, pipes it through, you know, the risk
16 system and comes up with a number. This is independent
17 from looking at the performance and outcomes of our
18 portfolio. So this particular risk limit that we're
19 talking about is simply how do we use the risk system.

20 And so that was -- again it doesn't impact how we
21 report or assess performance. It's totally disconnected.

22 The other point I would make on these private
23 assets, it's not purely just that they're more volatile.
24 It has to do with the fact that fundamentally these risk
25 systems are really not negatively designed to measure the

1 risk of private assets, because they rely very heavily on
2 statistical data, on, you know, observations of market
3 performance, on even the daily frequency and we just don't
4 have that for the privates.

5 So the challenge on the privates really is
6 two-fold. One it's that the models just do a really rough
7 job of it and you just don't get the kind of granularity
8 that you do for the public assets. And then the other
9 problem again as noted is that the benchmarks are not
10 investable. And that's kind of actually related.

11 So those two challenges are kind of structural in
12 private assets and why, you know, a lot of the industry
13 really just doesn't use tracking error for private assets.

14 MR. KAZEMI: Michael, this is Ali from Wilshire.
15 I wanted to maybe chime in quickly. I think Arnie and
16 Michael have hit on a lot of the key components of the
17 discussion here. I just want to reiterate, you know,
18 we're in agreement with the recommendations here. And I
19 think I wanted to point out that again we're not
20 eliminating any reporting. You know, you'll see within
21 the risk control portion of the agenda item -- or in the
22 material that you still have, the legacy tracking error
23 metric there. We thought that that was important to
24 provide kind of context for what the tracking error has
25 been in the past for the Committee on a go-forward basis.

1 So you still have that metric there.

2 Another aspect, with regards to timing, what I
3 think is really, really important is that this is a
4 proactive change? You can see here on this slide, you
5 haven't really hit that 150. We're not near that 150
6 basis point target, currently with the legacy metric.

7 What we're really trying to do here is be
8 thoughtful and proactive about potential ways that the
9 tracking error could be breached. And the biggest
10 component of that would be the mismatch and the structural
11 aspect to private equity, tracking error, due to some of
12 the benchmarking issues that Michael touched on.

13 So in the hopes of being proactive of being
14 forward thinking with regards to how that tracking error
15 metric is Calculated, this is where that recommendation
16 comes from. And the last point is also a really, really
17 important one about official performance measurement.
18 This is not changing how the benchmark return is being
19 calculated for your portfol -- your portfolio. This is
20 strictly within the confines of how the tracking error is
21 being calculated.

22 So we're not changing how the official
23 performance will be tracked in relation to private assets
24 or any asset. So we're in agreement with this
25 recommendation and happy to take any questions as well.

1 CHAIRPERSON TAYLOR: Does that answer your
2 question, Ms. Ortega?

3 COMMITTEE MEMBER ORTEGA: Yes. Thank you.

4 CHAIRPERSON TAYLOR: Okay. Next question is from
5 Ms. Brown.

6 COMMITTEE MEMBER BROWN: Thank you, Chair Taylor.
7 So my understanding of this item is that we're basically
8 going to, if this policy is written and then approved, we
9 will be removing all private equity from the tracking
10 error measurement, is that correct?

11 MR. KAZEMI: Not necessarily, Ms. Brown. So with
12 regards to the degree that you are overweight or
13 underweight private equity, that will still be calculated
14 within the confines of the actionable tracking error
15 metric, so it wouldn't be removed as any kind of
16 implementation contributions coming from private equity
17 versus the benchmark using the ex-ante model.

18 COMMITTEE MEMBER BROWN: So will this -- so
19 wouldn't a simpler option be just to raise the amount of
20 tracking error we're allowed to have, because I know right
21 now it's at 150 basis points, right, and you say we're
22 nowhere near that. So rather than change the entire
23 policy, so we won't have historical to compare to future,
24 why couldn't we just raise the tracking error -- the
25 allowable tracking error as we hold more private equity?

1 MR. KAZEMI: So I'll give my opinion on this.
2 And then if, you know, Michael or Arnie want to chime in.
3 To us, the bigger -- one of the really important aspects
4 of this is to ensure that the Committee also has, you
5 know, relevant context into the changes in your public
6 assets. And so by just increasing the overall total fund
7 tracking error to allow for an increase in private equity
8 assets, that would be one way to approach it, but that
9 wouldn't address the issue about having oversight on the
10 public assets.

11 So to the slide that Arnie had up earlier, if you
12 were to double up your -- you know, your public equity
13 active risk, the current metric you don't really see that.
14 It's not really material overall. And so it essentially
15 distracts from I think what the goal is which is to
16 highlight risk that is actionable in nature.

17 So for that reason, I -- you know, we're in
18 agreement with staff that reducing the risk and
19 eliminating the private equity implementation component
20 from the calculation, achieves both of the goals, which is
21 to provide more oversight to the more actionable levels of
22 risk and also decrease the amount of overall tracking
23 error that the staff has budgeted for them.

24 Arnie, Michael, anything to add there?

25 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

1 Ali, I --

2 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Ali,
3 I'll --

4 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:
5 Go ahead, Dan.

6 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Let
7 me just jump in real quick. I'm sorry. I'll just jump in
8 really quickly. So first of all, I want to go back to Ms.
9 Ortega's question and I think it was a really good
10 question. Remember, that one of our Investment Beliefs,
11 one of our ten is that risk is multi-faceted and can't be
12 captured with any single metric, including tracking error
13 or volatility, which speaks to what Arnie was saying about
14 to mosaic.

15 So if we can go to slide seven, you'll see that
16 there are a number of different things that we use as our
17 sort of mosaic in capturing tracking error, first and
18 foremost, the asset allocation ranges. But then the
19 second thing, and speaking to this could we just raise the
20 limit, Ms. Brown, to your question. You know, certainly
21 this is an information item. This is something that we
22 have proposed as draft language. If the Board's
23 preference would be to just raise the 150-basis point
24 limit to 200 or something, that doesn't create that
25 disincentive to invest in private markets, that certainly

1 is something that the Board could choose to do.

2 With us, what we try to do is bring what we
3 thought was more -- was a more thoughtful way to approach
4 this topic of tracking error. And if you go back to slide
5 three that Arnie covered, just to -- just to talk about
6 this slide, right now, what you can see is this middle
7 column, 111, 118, and 107, what that's saying is currently
8 with our current active exposures in the public markets,
9 the tracking error is saying 111.

10 If we doubled the active exposure in the public
11 markets and we took twice as much active risk in the
12 public markets, it only goes from 111 to 118, which
13 doesn't look like it changes much. And the same thing, we
14 removed all active risk in the public markets, it goes
15 from 111 to 107. Again, it doesn't change much.

16 And that's why we think that actually on the
17 right side is a better way to do it is to talk about
18 actionable tracking error, because there you can see that
19 it goes from 16 to 31, right, doubling? It doubles the
20 active risk or goes from 16 to zero, again removing the
21 active risk. We think that's a more informative metric.

22 For us, going on to the next slide, slide -- what
23 is it -- slide 4 here, what we don't want to see happen is
24 that we get a disincentive to invest in private markets,
25 specific private equity. And Ms. Ortega, specific to your

1 question, one of the things, you know, like Michael said,
2 the model doesn't do a good job of capturing risk --
3 active risk for private markets, but also, additionally, a
4 lot of what's being captured that causes those numbers to
5 be so big is just the fact that private equity isn't
6 public equity. So it's measured against a benchmark that
7 is public equity. The active risk it's talking about is
8 against public equity, but it's fundamentally not public
9 equity. It's private equity.

10 So that's why you're seeing big numbers. And so
11 for us, our proposal would be to do what we think is a
12 better set of -- you know, set of metrics. Now, we would
13 continue to report total fund tracking error that includes
14 the private markets. We would report that on an ongoing
15 basis, as Arnie said both in the quarterly reporting and
16 also in the monthly Insight Tool. We just think that a
17 better -- a better metric, a more informative metric is
18 this actual tracking error and that to provide -- to have
19 the policy be applied to that is a -- is a better risk
20 management tool. But as I say, these are all proposed
21 draft changes and certainly the Board can take any action
22 that is desired.

23 COMMITTEE MEMBER BROWN: So, Mr. Bienvenue, we
24 could actually do that, but do it opposite, which is to
25 raise the tracking error limit and have you report

1 separately on actionable, and non-actionable. So rather
2 than change the whole policy in the way we do this, we
3 could just raise the limit and then have you report on the
4 tracking error for the public equities, and then we would
5 have -- we would have this information. I have concerns
6 with having this big broad change rather, than just
7 raising the limit and then having you report on what the
8 information is.

9 I do have another question for Mr. Ali -- I'm
10 sorry, Mr. Kazemi. Sorry, Ali. And that question is does
11 removing PE from the tracking error, does that, in any
12 way, change the asset allocation sort of the weights or
13 the bands for private equity? What I'm saying is
14 currently we have a policy of how much private equity we
15 can hold. I don't know the number. You know, eight
16 percent, nine percent, 12 percent, whatever it is. And I
17 want to make sure that -- that this doesn't change the
18 amount of private equity asset allocation we're allowed to
19 hold.

20 My concern is that as we potentially see a large
21 correction in the public markets, our private assets could
22 be actually overallocation. And I don't -- I don't want
23 us to keep buying more private equity if we're over the
24 allocation. And so I -- am I confusing the two or does
25 that somehow impact with this policy?

1 MR. KAZEMI: It does not, no. To answer your
2 question, this does not, in any way, impact the
3 rebalancing ranges which are an added oversight that the
4 committee has with regards to the asset allocation. And
5 so that is eight percent plus or minus four percent that's
6 still contained within the policy.

7 COMMITTEE MEMBER BROWN: Right.

8 MS. KAZEMI. That still is a risk management tool
9 in addition to the tracking error metric, so this, in no
10 way, changes that.

11 COMMITTEE MEMBER BROWN: Great. So we are at
12 eight percent for private equity and they can go up to --
13 up to 12 and or down to four, so to speak, right --

14 MR. KAZEMI: Correct.

15 COMMITTEE MEMBER BROWN: -- and be within the
16 policy? And we're not looking at changing that at this
17 point in time?

18 MR. KAZEMI: We are not in any way.

19 COMMITTEE MEMBER BROWN: Okay. All right. So I
20 still want to go back to my position, which is to go ahead
21 and report to the Board on actionable tracking error
22 and -- so we can see what's going on and then just raise
23 the limit, if we need to, because it -- right now you're
24 saying we're nowhere near the 150 limit. So that's --
25 that would be my suggestion. And I don't know if any

1 other Board members have any comments.

2 CHAIRPERSON TAYLOR: (Inaudible) question. So
3 first of all, this is -- we can have them bring that back.
4 This is just an information item, Margaret, so -- but let
5 me ask Dan a question. So this doesn't -- this is --
6 you're still going to report on the current method --
7 methodology anyway, correct? So we're using this as a new
8 methodology and a more accurate, as I understand it,
9 methodology. It doesn't track -- it's a risk mitigation
10 tool and a tracking tool. It doesn't do anything to the
11 investment portfolio. And I will ask Dan if, in any way,
12 it should impact our investing in private assets as well.
13 All those questions all at once. There you go can, Dan.

14 (Laughter.)

15 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Yes.
16 Thank you. Thank you, Ms. Taylor.

17 So first of all, correct, our plan would be to
18 continue to report both total tracking error, total fund
19 tracking error that isn't the current, you know, reporting
20 metric, and then also actionable tracking error. We would
21 report both in all of the standard reporting. We would
22 apply the policy limit to actionable tracking error that
23 we think is a better -- it's a better number. It's a
24 better metric. It's actually a more accurate capturing of
25 where staff is intentionally proactively deviating from

1 the benchmark. We think that's a better metric. But yes,
2 we would continue to report both.

3 An alternative would be -- per, you know, Ms.
4 Brown's comment, would be to just raise the overall limit.
5 We just think that's a much more crude tool, because it
6 just raises the limit, and, as I say, it's just -- it's a
7 more -- it's a more crude approach to not constraining
8 private equity.

9 For -- in both cases, the goal is to -- is to not
10 constraint how much we allocate to private assets knowing
11 that private assets by different -- by definition are
12 different from their benchmark and that our risk models
13 don't very well capture those, you know -- you know, the
14 active risks in those -- in those asset classes.

15 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

16 Hey, Dan, I'd like to add one point. If we can
17 go to page eight of nine. And this is -- this gets into
18 where the -- and again, we could pick a different tracking
19 level number, but where the current 150, and given we're
20 currently at 120, starts to kind of collide with some of
21 the things that the Board has already approved. So if you
22 look at the -- in the chart there, the third one down that
23 says implied using a seven percent growth policy range.

24 So the public equity strategic asset allocation
25 has a band around it of plus or minus seven percent. If

1 for whatever reason the decision was made to go say plus
2 seven percent over that strategic, that by itself would
3 add 120 basis points of tracking error. We only have 30
4 basis points left right now between the 120 and 150. And
5 this is only a single toggle within the portfolio. So
6 this is where that number would show up in our actionable
7 tracking error and be a metric that we would have to abide
8 by for the plus 100.

9 But right now, we couldn't even do what is
10 already in the policy, because of that restriction at the
11 150. So again, we could pick a different number and we
12 would need to, if we wanted to leverage all the kind of
13 tools in the toolkit that are already in the policy. But
14 this is where we believe the -- just the natural desire
15 for more private assets is over time going to cause that
16 tracking error to go higher. And as it does, it starts to
17 impede our ability to use some of the other tools that are
18 in the policy.

19 CHAIRPERSON TAYLOR: So what exactly -- can
20 you -- I'm sorry, Arnie. You're kind of confusing me now,
21 so could you sort of boil that down a little bit for me?

22 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

23 Yeah. So if -- so if we went to the actionable
24 tracking error with 100 basis points, we would have --
25 one, you would be able to track our activity within the

1 actions that the Investment Office has taken clear, but we
2 would be better able to actually use the tools in the
3 toolbox. So, for instance, this one line item says we
4 have a plus or minus seven around the strategic asset
5 allocation.

6 Now, that's worth 120, so we couldn't even use
7 all of that today. But given the very low level of
8 actionable tracking error right now, we would have much
9 more flexibility to use that tool than we're going to be
10 able to use in the total fund tracking error, where we're
11 at 120 today and only have 150. And so we just think the
12 total tracking error, as we deploy more to private assets
13 and we get the inherent tracking error that comes with the
14 benchmark issues in the private assets, it starts to
15 lessen the ability to use the tools that the Board has
16 already approved in the policy and starts to make us sort
17 of one dimensional, in that we'll only really be able to
18 do private assets and there won't be much we can do, you
19 know, on the public side.

20 Now, the tracking error is -- it's a trip. It
21 doesn't necessarily force action. We -- you know, if we
22 trip any of whether it's total or actionable, the next
23 step is to talk to Ali and the Wilshire folks to figure
24 out the next best step and then come back potentially to
25 the board and say, look, we've tripped it, but we're

1 actually comfortable where we're at, and you could just
2 choose to keep it in place.

3 But for me, the actionable will clearly be a more
4 transparent in our view and allowing us to use all the
5 tools in the toolbox is -- it just allows us to do what
6 we've already approved as an organization around the bands
7 and other allocation decisions. Whereas, we're going to
8 hit that very quickly, if we stick with the total,
9 without, to Ms. Brown's point, raising it.

10 CHAIRPERSON TAYLOR: Okay. That helps me. I
11 appreciate that, Arnie.

12 It looks like David Miller. Mr. Miller, did you
13 want --

14 VICE CHAIRPERSON MILLER: Yes. Yeah. First, I
15 just want to thank Arnie, Michael, Dan, Ali. Very
16 helpful, clear explanations. I'm -- and my comment is I
17 really appreciate this as a re -- a proposed refinement.
18 It's additive. It enhances the team's ability to
19 communicate with us and enhances our ability in terms of
20 oversight to have these -- this additional metric that
21 give us more of an accurate picture and allows us to
22 really see important differences for what they are, not
23 just artifacts of doing what we need to do to make
24 everything go.

25 And I think this will be a -- you know, a real

1 benefit to us and the team. And I thank you for bringing
2 it forward. I look forward to, you know, us actually
3 being able to take some action on this some time in the
4 near future.

5 Thank you.

6 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

7 Mr. Miller, I'd also like to add we view this as
8 a very helpful tool also, as we've transitioned to kind of
9 top down, total fund portfolio construction. You know,
10 I've been here almost three decades and we were very
11 siloed for a very long time. And the move to top-down,
12 total fund, portfolio construction is an extreme
13 improvement in the Investment Office. And this actionable
14 tracking error will allow not only the Board but Dan as
15 the Interim CIO and everything to really track the
16 decisions the fund is making across all of the asset
17 classes, not just within an asset class.

18 So it's actually a very good management tool
19 internally for us to fit with our transition to this, you
20 know, one fund and one total fund focus. And so it's
21 beneficial internal. I think it's something -- you know,
22 even if the Board chose not to go forward, we would still
23 use it in the Investment Office, because it really fits
24 how we've transitioned to running it at the total fund
25 level.

1 VICE CHAIRPERSON MILLER: Yeah. Thanks.
2 Appreciate that.

3 CHAIRPERSON TAYLOR: I don't see any other
4 questions, so what I'd like to -- do you guys have
5 anything else in this presentation before I go on?

6 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: No,
7 Ms. Taylor. We don't have anything else in this
8 presentation. What would be very helpful is to get
9 direction on whether you'd like us to come back with this
10 kind of language or something more, like just raising the
11 limit.

12 CHAIRPERSON TAYLOR: I am -- I think this
13 language is fine. I'm not hearing anyone but Ms. Brown.
14 And it sounds to me, based on what you guys are saying, is
15 this is the tool that you want to use, that gives you the
16 best leverage, and freedom to do what you need to do. So
17 if that's the case, then this is where we want to move
18 this language forward into an action item, I assume, at
19 the next meeting.

20 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:
21 Great. Thank you, Ms. Taylor. So we'll plan on
22 coming back with similar language as an action item in
23 September for the Board to take action on.

24 And then to Arnie's point, this is some -- this
25 is -- this kind of metric is something that we've been

1 using internally for quite a while, because we do think
2 it's a better -- it's a better metric and it does allow us
3 to manage total fund active risk. So, you know, Michael
4 and his team have been calculating and reporting this
5 metric internally for quite while. And then, you know,
6 with Mr. Jones' request to understand tracking error
7 better, and then our item in November, we thought it made
8 sense to explore whether it made sense to make that the
9 policy language for the Board.

10 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

11 Ms. Taylor --

12 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Ms.

13 Taylor, you're on mute.

14 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

15 I was just going to add one thing. Really
16 appreciate Wilshire's, you know, walking this through
17 since November with us, and getting to where we think is a
18 really good product, but it's -- their insight and just
19 understanding of the topic and feedback was very helpful
20 and very appreciated.

21 CHAIRPERSON TAYLOR: And I appreciate it, too.

22 So, yeah, direction from the Chair is to go ahead and move
23 this forward for next meeting for an agenda -- or, I'm
24 sorry, an action item.

25 I'm sorry. I do have one other commenter, that's

1 Ms. Olivares.

2 COMMITTEE MEMBER OLIVARES: Thank you, Madam
3 Chair. I want to thank the team and Wilshire for this
4 presentation. I think it's very help. It's critical that
5 we have a disciplined investment process, and so I
6 appreciate this approach to tracking error limitations.

7 I think it would be helpful to get an
8 understanding of how pensions of similar size have done
9 something like this to give us the flexibility we need to
10 invest in the private markets, get those returns, take
11 advantage of dislocations, but also use a very thoughtful
12 and disciplined approach to the public markets, where
13 there shouldn't be high tracking errors.

14 CHAIRPERSON TAYLOR: Thank you.

15 Stacie are you asking for -- with the agenda item
16 to bring back like a comparison with --

17 COMMITTEE MEMBER OLIVARES: Yes --

18 CHAIRPERSON TAYLOR: Okay.

19 COMMITTEE MEMBER OLIVARES: -- with other
20 pensions of similar size.

21 CHAIRPERSON TAYLOR: Okay. If that's not a
22 problem, Dan.

23 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:
24 I believe --

25 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: No.

1 That's certainly something that we can look into and we
2 can bring that back.

3 COMMITTEE MEMBER OLIVARES: Or if Wilshire could.

4 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

5 Yeah, I think Wilshire has already done some of
6 that work and maybe Ali wants to comment on it. But I do
7 know from some of our conversations that firms -- other
8 firms tend to sometimes look at quote actionable tracking
9 error by ignoring the allocations within various asset
10 classes, where our actionable tracking error actually
11 includes that. So it is a little bit higher bar. But I
12 do know Wilshire has done some work. I don't know if Ali
13 is ready to comment today, but --

14 MR. KAZEMI: Yeah, just real quickly and we can
15 certainly, you know, bring back some supplementary
16 information as part of the official recommendation. And I
17 believe even in your November material, there was some
18 data from staff in terms of other plans, in terms of their
19 tracking error limits.

20 And so the one percent falls well within kind of
21 the normal level with what we would see for a large
22 institutional portfolio. And to the point that Arnie
23 raised, a lot of those tracking error limits do not
24 include the asset allocation contribution component. So
25 this does include that, so you could argue that this is

1 actually an even more conservative from a tracking error
2 limit.

3 I would say, you know, a potential two percent
4 target for tracking error would be on the high end of the
5 spectrum, which is one of the reasons why we're more
6 supportive of, you know, this one percent level that is
7 all-encompassing with regards to implementation and asset
8 allocation.

9 But we can certainly, as part of our follow-up in
10 the official recommendation item, come back to you guys
11 with some data points on that too.

12 COMMITTEE MEMBER OLIVARES: Thank you. I think
13 it would be particularly helpful with private equity.

14 CHAIRPERSON TAYLOR: Thank you. Yeah, we'd
15 appreciate it.

16 Any other questions from the Board?

17 And before I move on, I just want to check. So,
18 no, I'm not seeing -- am I seeing anything -- public
19 comment -- requests for public comment on 7b?

20 No public comment. Okay.

21 Woops. So right now, I know we have a fairly
22 large presentation coming up next and we have not taken
23 our morning break, so let's take our 15-minute morning
24 break right now and come back -- well, it's going to be
25 about 17 minutes, and come back at 11:45. If anybody has

1 a problem with that, let me know.

2 Morning break, here we go.

3 (Off record: 11:26 a.m.)

4 (Thereupon a recess was taken.)

5 (On record: 11:45 a.m.)

6 CHAIRPERSON TAYLOR: We are back in session --
7 open session. And our next, I'm sorry, agenda item is 7c,
8 sustainable investment five-year strategy plan progress
9 report.

10 With that --

11 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: All
12 right.

13 CHAIRPERSON TAYLOR: -- I'm going to hand it
14 over. Thank you.

15 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: All
16 right. Thank you, Ms. Taylor. And I do want to just, one
17 more time, thank everyone for the really thoughtful
18 approach and work in preparing Item 7, both the investment
19 controls and operational risk team, investment risk
20 (inaudible). Also thank Wilshire for working with us
21 closely on this, and, as mentioned, we also worked with
22 Meketa.

23 So let's move on to 7c. I see we have Anne
24 Simpson in the presenters queue. Can we please get Daniel
25 Ingram from Wilshire also brought forward to the

1 presenter's queue if he's -- if he's not that.

2 So as we move on to session c -- I'm sorry, as we
3 move on to Item 7c, this is our final open session
4 information item of the day. And as Ms. Taylor mentioned,
5 this is our update on our progress implementing CalPERS
6 sustainable investment five year strategic plan.

7 So if you'll recall in August of 2016, the
8 Investment Committee approved a five year strategic plan
9 on our approach to ESG and sustainable investment topics.
10 And Anne Simpson, of course, has been very close to and
11 provide a great deal of leadership throughout the
12 execution of the strategic plan, as she's here to walk us
13 through the presentation.

14 So with that, Anne, I'll turn it over to you to
15 take us through the item.

16 (Thereupon a slide presentation.)

17 MANAGING INVESTMENT DIRECTOR SIMPSON: Thank you
18 very much, Dan. It's quite something to think that five
19 years ago we were here with the Board presenting this
20 plan. So it's a real pleasure to be back -- to look back
21 over this five-year period and actually mark the progress.

22 At the time that the plan was adopted, there were
23 very few investors who'd gone into the depth that we had
24 with the Board's leadership in order to make sure that
25 we'd identified critical issues, given ourselves

1 need to be stewards of human capital, which is why issues
2 around the workforce, the supply chain are also important,
3 but also physical capital. And no better example there
4 than the impact that we're seeing on climate change.

5 But the important message here is that all the
6 work that we do on sustainable investment is grounded in
7 the economics, in the investment thesis that we have,
8 which is that companies which manage these three forms of
9 capital well are the companies which are going to prosper
10 over the long term, and they're also going to be the
11 companies which have a better line of sight into the risks
12 that companies are facing.

13 Now, there are several other Investment Beliefs
14 which are extremely important to this work, and, of
15 course, the Beliefs themselves have to be read together.
16 You can't pick one out, but I would just highlight a
17 couple, which are extremely important to this work. And
18 one is this notion that being a long-term investor is both
19 an advantage and a responsibility. Another Investment
20 Belief is that CalPERS responds to the concerns of
21 stakeholders, to the extent that this is within our
22 fiduciary duty, and also that where CalPERS takes risk, we
23 need to be rewarded. So our understanding of the risks in
24 sustainable investment is a way for us to better
25 understand the value proposition.

1 Now, the other reason for putting this slide up
2 is often this type of work is referred to as ESG, E for
3 environmental, S for social, G for governance.

4 However - and Daniel at Wilshire has written
5 about this as well - the problem is there's a letter
6 missing, which is the letter of F, and that's the letter
7 for finance. So I do genuinely believe that CalPERS
8 framing of the sustainable investment agenda really does
9 root what we're doing in the economic case.

10 And when we just talk about ESG, sometimes it can
11 be thought of as something that's separate on the side,
12 but then needs to be brought into the investment process.
13 Whereas, the CalPERS approach really is to see this as
14 embedded in our understanding of both risk and return.

15 Through this presentation, however, because it's
16 the more popular way of referring to this work, we will
17 call it ESG. But I wanted to put this slide up just to
18 explain how the ideas of ES&G map onto our Investment
19 Beliefs.

20 Thanks. Next slide, please.

21 --o0o--

22 MANAGING INVESTMENT DIRECTOR SIMPSON: So the
23 question always is not why. I think we've got a good -- a
24 good grasp on why it's important to consider
25 sustainability issues and investment, because of this

1 relevance to our concern with risk and return.

2 This slide is about how. And we know that there
3 have been very lively debates, with stakeholders and
4 others, about what CalPERS should be doing in response to
5 the opportunities and also to the risks that
6 sustainability poses for us.

7 Now, this is our how slide. How do we get things
8 done? The more fancy term, of course, is implementation
9 channels. But there are three things as a very large
10 global asset owner that CalPERS can do.

11 And the first is advocacy. And this is our role
12 engaging with regulators and policymakers, because we know
13 that, particularly on issues like disclosure, but also on
14 market structure, on incentives that are -- may not be
15 aligned in markets, we have a very important role. And
16 I'll say more about that as we go through the update.

17 The second channel comes from our position as
18 investors in company equity, where certainly in public
19 markets, this typically comes with voting rights and it
20 gives us the ability to exercise stewardship ourselves, as
21 a part owner of a company to make sure that their
22 long-term success is aligned with our investment goals.

23 And the third part of what we do is integration.
24 And this is where each asset class bottom up has developed
25 an approach to identify the relevant sustainability

1 MANAGING INVESTMENT DIRECTOR SIMPSON: So here's
2 some examples. It's not all of them, but these are
3 notable partnerships that CalPERS supports. We support
4 these through, in many cases, we've been a founder of
5 these different groups and also we have a role where
6 either Board members or management sit on the board of
7 these particular company -- particular partnerships, which
8 gives us an ability to not only draw deeply on the work
9 that these groups are doing, but also to contribute and
10 make sure that their work is aligned.

11 Next slide, please.

12 --o0o--

13 MANAGING INVESTMENT DIRECTOR SIMPSON: So now
14 we'll turn to what was actually decided on in the plan
15 itself. So the first point is in order to decide what to
16 do, the first thing that was done, in other words, was
17 taking stock. We carried out a very careful and thorough
18 inventory of everything that CalPERS had been involved in
19 in this arena over the years, because this work didn't
20 begin five years ago for CalPERS, it goes back decades.

21 And for those of you who were on the Board at
22 that time, you might recall we found there were no less
23 than 111 different initiatives through asset classes, at
24 the total fund level, portfolios, policies, statements,
25 guidelines, commitments. And this was an abundance of

1 great work, but it wasn't drawn together into a strategy.

2 So that posed the question of, well, what really
3 matters to CalPERS investment objectives? What is it that
4 we can do that will have impact, that's going to be
5 beneficial for our members.

6 So we commissioned an extensive roster of
7 research through the Sustainable Investment Research
8 Initiative, affectionately known as SIRI, but that was
9 before Apple was using this for their robot voice on their
10 phones. But the SIRI was really intended to help us look
11 at all the material that had been provided by the academic
12 community and get an insight into what was going to be
13 valuable for us to focus on.

14 And it was also recognized at the time that
15 research itself is an ongoing process. So we commissioned
16 a second round of SIRI a couple of years into the plan in
17 order to further examine some of the more complex topics
18 that we were dealing with. And given that this is a
19 complex, it's a new -- its evolving rapidly this whole
20 field of work in investment research will be able to
21 continue.

22 So that is why research, you see on the left of
23 this slide, with a little Sherlock Holmes magnifying glass
24 looking for clues. This is why research and being
25 research driven is so important to our work, because

1 there's 101 different things that we can do, and there
2 were a 101 different things that we were doing. The
3 important thing is to focus with our limited resources,
4 time and ability to be effective. There's a limit on
5 that, so we need to be careful in the way that we choose
6 to focus.

7 The second focus in the priorities is, as you
8 see, data and corporate reporting. And this became a very
9 logical thing for us to put as a priority, because in the
10 research process, it was very clear that we were facing a
11 real problem in that there is so little high quality,
12 consistent, comprehensive reporting on sustainability
13 issues. And it is really difficult for researchers even
14 to work out what matters and what doesn't matter, and hand
15 gathering data, and modeling data can be very inefficient
16 and very time-consuming.

17 So it was decided that what we would do is
18 actually make this one of the six strategic priorities in
19 this plan. Now, this was very bold at the time. The idea
20 that we would somehow enter into the world of
21 international accounting and audit, and regulatory
22 reporting, and say this needs to change. This needs to be
23 modernized, looked like a very big tough thing to do. And
24 it has been big and it has been tough. However, we've
25 been able to make some real progress, which we'll talk

1 about in a moment.

2 Now, we come to the cross-cutting themes. The
3 other question we posed in the research, well, what
4 matters to CalPERS risk and return whenever, wherever, and
5 however we allocate capital or exercise stewardship. And
6 it was clear, even five years ago, we just had the Paris
7 agreement that -- later that year, December in 2015. This
8 plan was adopted six months later. And it was clear that
9 climate change was becoming not just a source of great
10 opportunity because of the transition in the energy
11 economy, but also it was going to pose different types of
12 risk to the portfolio.

13 The root of that risk is greenhouse gas
14 emissions. So we took the approach that through
15 engagement, we could identify the biggest sources of those
16 emissions, and the goal to bring them down, in other
17 words, to mitigate the risk by actually going to the
18 source and bringing those emissions in line to what's
19 in -- expected under the Paris Agreement.

20 The other cross-cutting theme that emerged from
21 the work is the value of diversity. And I think this had
22 been understood even after the 08-09 financial crisis. I
23 remember the IMF saying the biggest un -- under --
24 misunderstood risk for regulators' microeconomic policy,
25 corporate board rooms, financial institutions was group

1 think. In other words, groups of people who think the
2 same way, see the world in the same way, simply don't have
3 the range of different perspectives to understand how to
4 manage risk well. So that's the first argument in support
5 of board diversity.

6 And the second is given the extraordinary
7 challenges that companies face, it seems very odd that
8 they would confine themselves to finding board members in
9 one very small demographic. And when we started this
10 work, demographic was typically men over the age of 60,
11 who were white.

12 So the diversity we could see and the research
13 that we had, at the time, showed -- gave us some insight
14 into this, that diversity matters both for risk and for
15 return.

16 The next priority is on private equity and
17 profit, and fee sharing transparency. This was an asset
18 class specific project where if you think about the G in
19 ESG, this is a governance question. And one of the most
20 important issues of governance is how to get alignment of
21 interest between us as a capital provider and managers
22 when they deploy their capital. And, of course, the first
23 step to that alignment was transparency.

24 So working through ILPA, a template was developed
25 in order to improve disclosure around profit sharing and

1 strengthen our understanding of ESG factors relevant to
2 risk and return, and this is important, specific to
3 CalPERS investment strategy.

4 Now, if we were a different investor with a lower
5 discount rate or a different time horizon, or maybe a
6 different size, this strategy would look quite different
7 I'm sure. And the purpose of research is three-fold:

8 One, of course, to validate the factors that
9 we've identified as relevant for investment purposes;
10 secondly, to support the asset classes and integrating
11 those actors across the fund; and also educate. We're
12 recognizing in all humility that many of these topics are
13 new. And for people who may be more qualified some years
14 ago, these were not part of the CFA curriculum back then
15 and then weren't even topics that were being taught in
16 business schools or finance classes.

17 So education is obviously a continuing benefit
18 for everyone, but on this topic it's particularly
19 important, because it's new and it's challenging. And the
20 KPIs are set out below. We had specific research
21 projects.

22 So next slide, please.

23 --o0o--

24 MANAGING INVESTMENT DIRECTOR SIMPSON: So in each
25 of the priorities, there's been so much work done, we'd be

1 here until the middle of the night, if we tried to cover
2 everything. But what we've done is choose an example from
3 each of the workstreams to give you an example of how
4 we've approached the mandate.

5 So this case study refers to CalPERS report that
6 came out last year. It's on investment strategy around
7 climate change. And it's our first response to the Task
8 Force on Climate-related Financial Disclosure, which is a
9 bit of a mouthful, know for short as the TCFD.

10 This is an extensive report. For those of you
11 who browse through it, it's 60 plus pages. So we didn't
12 just want this to be a public relations exercise. It was
13 a very, very thorough assessment of risk an opportunity
14 right across the total fund. And as you'll see, what
15 that's enabled us to do is really understand the risk
16 exposure sector by sector and asset class by asset class.

17 We also completed the last of the carbon
18 footprints, one for each asset class, to give us a sense
19 of what -- what we own by way of emissions, because
20 obviously, if emissions need to come down, we need to have
21 a sense of what the source and the interdependencies
22 between different companies and sectors.

23 There's also, just to tie all that climate change
24 analysis, which is part ecology, part physics, part
25 meteorological calculations. There's also an assessment

1 of climate value at-risk, in other words, how we translate
2 things that are going on with climate change itself into
3 our understanding of risk in the portfolio.

4 Likewise, it's not all doom and gloom. There are
5 tremendous opportunities. There's also in the report a
6 green revenue map, which shows where we've got money
7 decked onto those opportunities. And I think just to put
8 a number on both those things, risk and return, we've
9 assesses that about 20 percent of the fund's assets are
10 vulnerable to either transition risk or physical risk, but
11 in turn, almost 20 percent of our private assets
12 investments are in what, you know, tends to get called
13 climate solutions. So we think, although this was an
14 extensive piece of research, it's been extremely valuable
15 to us in understanding the exposure both to risk and
16 return.

17 We also, along the way, realized that we do not,
18 at this stage, have some of the analytical tools that we
19 need to properly assess that risk. So we worked with
20 Wellington using meteorological data from what used to be
21 called Woods Hole now Woodwell, and it quite well have
22 gone from being a hole to a well, but never mind.

23 But using meteorological data to map onto the
24 physical location of assets that CalPERS owns. So if you
25 think about something like extreme temperature in the

1 southwest of the United States, we can see projected over
2 time, what risk will be coming to effect assets that
3 CalPERS holds. And obviously, with extreme temperature,
4 we own, for example, a shopping mall, extreme temperature
5 might affect where people choose to live, which would
6 affect the shopping population, notwithstanding the use
7 of the Internet. It will also perhaps affect, you know,
8 foot traffic into facilities that we've got.

9 So there are very simple ideas that the weather
10 actually has an impact on assets, then need to be modeled
11 in a way that can be useful for financial purposes.

12 Next slide, please.

13 --o0o--

14 MANAGING INVESTMENT DIRECTOR SIMPSON: So data
15 and corporate reporting. As I said, really, we are often
16 groping in the dark for extremely important information
17 that we need. And the -- as we say with the objective,
18 we, first of all, thought that we need to get initial
19 voluntary corporate reporting on the books really to work
20 out what's practical, what matters, what's relevant to
21 risk and return. And through that, we've been grateful to
22 work with bodies like the Sustainable Accounting Standards
23 Board and others to really push this forward.

24 However, voluntary reporting is not enough.
25 We've come to appreciate doing the period of this plan

1 that the single most important thing is to get reporting,
2 which can meet the test for quality not just quantity,
3 such that it's at the same standard that we expect for
4 financial information.

5 And a lot of what companies report on ESG
6 basically gets ignored by investors and it's no surprise,
7 because it's not standardize. It's not audited or assured
8 is perhaps a better term. It's not integrated into the
9 financials. So this really is the important area of work
10 on data and corporate reporting that we've been involved
11 in.

12 Next slide, please.

13 --o0o--

14 MANAGING INVESTMENT DIRECTOR SIMPSON: So we want
15 to again give you a couple of examples of where we've been
16 able to make progress. CalPERS for some time has
17 represented the Council of Institutional Investors when
18 the Advisory Council for the international accounting
19 world, that's the IFRS, the International Financial
20 Reporting Standards, that's what IFRS stands for. That
21 role is taken currently by James Andrus, who leads our
22 financial markets work.

23 CalPERS has also been able to work through, on
24 the U.S. side, through the SEC Investor Advisory
25 Committee, where we have served on that committee and been

1 able to develop specific recommendations for how important
2 sustainability topics can be taken up.

3 So through this work with regulators, there's two
4 examples here that we're putting forward. The first is on
5 human capital management. Now, if you look at the balance
6 sheet for the S&P 500, it's 85 percent intangibles.
7 Thirty years ago, it was 15 percent intangibles. So what
8 we're really saying is this is kind of a black box in
9 corporate reporting, where we know intangible assets are
10 obviously the source of the greatest value and potentially
11 risk, but we don't have reporting around what's happening
12 with the workforce.

13 So the recommendation, if -- when we get a chance
14 to look at it, was put forward to the SEC by the Investor
15 Advisory Committee that we worked on, covers basic
16 information that we think is essential, the status of the
17 workforce, full-time/part-time contingent, zero-hour
18 contracts, whatever, that is very important, also, health
19 and safety.

20 Now, remember this is before the pandemic, but
21 health and safety, workforce benefits, diversity on both
22 gender, and race, and ethnicity, employee engagement, you
23 know, how companies are treating their workforce in terms
24 of engaging and ensuring the status of the workforce, and
25 the participation, and the satisfaction with the workforce

1 is properly handled.

2 The good news here is that that framework was put
3 forward to the SEC. It was adopted. However, it was
4 adopted as an in-principle reporting framework. And what
5 we've seen in the past year, despite the terrible, brutal
6 impact of the pandemic, is that the reporting from
7 companies in the absence of any standards is just very hit
8 and miss. There's a bit of a narrative here, a bit of
9 information there, and it's very hard to get any real
10 sense of what's going on.

11 So Chair Gensler in our -- in his investor
12 outreach, which is extensive at the moment and we've had
13 several opportunities to be part of those discussions, has
14 made clear human capital management is next and the
15 consultation was announced just last week.

16 The other example we want to point to is on
17 climate risk and Divya Mankikar who, at that time, was
18 leading our climate change work, sat as the asset owner
19 representative on the Commodities Futures Trading
20 Commission special report on climate risk as a
21 financial -- as a financial issue.

22 The recommendations that came out of this are
23 extremely important, because they focus on mandatory risk
24 reporting, the need for carbon pricing, the need for
25 removal of fossil fuel subsidies, and a range of issues,

1 which CalPERS has called for over the years.

2 Now, why does it matter that we're using this
3 example rather than another one? It's important that this
4 report came out under the previous administration and the
5 United States, and also that it was accepted by the SEC
6 under Chair Clayton. This demonstrates that we cannot
7 approach these topics as a partisan political topic. It's
8 clear that the new administration is making climate change
9 and human capital management priorities. But both of
10 these initiatives that CalPERS worked on and played a key
11 role in made progress on under the previous
12 administration.

13 I think this speaks to the fact that the
14 economics of these issues is being better understood and
15 it's being viewed really as an investment theme as it
16 should be, rather than --

17 CHAIRPERSON TAYLOR: Anne, could I ask you to
18 explain who IEA is just for everybody's benefit real
19 quick.

20 MANAGING INVESTMENT DIRECTOR SIMPSON: The IEA,
21 yes.

22 CHAIRPERSON TAYLOR: Yes.

23 MANAGING INVESTMENT DIRECTOR SIMPSON: The
24 International Energy Authority is the world's body --
25 think of it like world soccer, the organization that looks

1 at global issues and climate change. And they have just
2 come out with their modeling for the pathway to meet the
3 Paris goal of maintaining global warming to no more than
4 1.5 degrees. And they say there is a narrow pathway for
5 us to do this. And as part of their advise, they say
6 there's no room for further investment in oil, or gas
7 coal, or tar sands. So this certainly put -- got the
8 attention in the G7 discussions last week, as we all know.

9 CHAIRPERSON TAYLOR: So I just wanted to make
10 sure --

11 MANAGING INVESTMENT DIRECTOR SIMPSON: Is that --

12 CHAIRPERSON TAYLOR: The IEA also generally was
13 for talking about -- it was created after the oil crisis
14 here in the United States, I believe, right, correct?

15 MANAGING INVESTMENT DIRECTOR SIMPSON: Yes.

16 CHAIRPERSON TAYLOR: It really was a fossil fuel
17 organization, so for -- and I know that you were talking
18 about something else, but this report also talked about
19 mandatory reporting and -- et cetera. I just wanted to
20 get that out there that, like you said, it's no longer
21 political, so...

22 MANAGING INVESTMENT DIRECTOR SIMPSON: Yes. Yes.
23 No, your point is very well made.

24 You know, we now have Democrats, Republicans, the
25 U.S., China, Japan, Europe talking not about is this

1 happening, but how do we -- how do we respond? We've
2 moved into the what do we need to do about this as opposed
3 to is this really going on in the first place. And
4 that -- by that, I mean climate change.

5 A couple of examples to add to what we've been
6 doing. We've also made -- taken opportunities where they
7 arise to weigh in on international consultations and the
8 Korean Financial Services Commission is a good example of
9 this. And as -- and the Board will be aware, we, on a
10 fairly regular basis, do go to give testimony most
11 recently at the House Financial Services Committee and
12 subcommittee as well. And we've given testimony, written
13 and oral, on a wide range of issues around human capital
14 management, and climate change, and market structure, in
15 other words, all of our three forms of capital have
16 been -- we've had this opportunity with our advocacy work
17 to represent CalPERS, which is a tremendous honor to be
18 able to represent CalPERS in these hearings.

19 May I have the next slide, please.

20 --o0o--

21 MANAGING INVESTMENT DIRECTOR SIMPSON: The links
22 to lines to all of that are in the appendix, if anybody
23 would like to see the testimony itself.

24 Right. Our first cross-cutting theme, climate
25 change, which Chair Taylor has rightly just flagged. The

1 objective here, as I said, is simple -- beguilingly
2 simple. If climate change risk is being exacerbated by
3 global warming, and global warming is being contributed to
4 by company emissions, and we own those companies, then we
5 have an opportunity as the part ownership of those
6 companies to do something.

7 So the point here on the KPIs that I just flagged
8 is at the point when the Board adopted this plan, we had
9 just completed our first carbon footprint of global
10 equity, which, at that point, had about 10,000 holdings.
11 However, this is why the data so important, in assessing
12 the carbon emissions for those 10,000 companies, we found
13 a shocking thing, which is that 80 -- about 80 companies
14 were responsible for around 85 percent of the emissions.
15 It was an incredible degree of concentration. We only
16 looked at Scope 1 and 2 emissions at that point.

17 So really this gave us the idea that we could
18 work with others in our philosophy of partnerships, if it
19 was true for CalPERS that just 80 odd companies were
20 producing this volume of emissions, then what we could do
21 is work with others and say, no, we don't have to boil the
22 ocean, to use probably absolutely the wrong metaphor, but
23 we're not trying to tackle 10,000 companies. We need to
24 the tackle about a hundred.

25 And the KPIs here are obvious that measure and

1 graph is really to show you how Climate Action 100+, which
2 is an initiative that CalPERS convened -- I'm going to
3 show you precisely what it's focusing on by -- on this
4 group of companies, because it's one thing to say here are
5 a hundred or so companies responsible for all these
6 emissions. And by 2050, all of these companies need to
7 have reduced emissions by an order of 80 to 90 percent.
8 That's extremely challenging, not just for those
9 companies, but for their whole customer base, because if
10 oil and gas, coal, and other fossil fuels are going to
11 come down, then the users of those energy sources need to
12 be able to transfer to cleaner sources.

13 And that means industries like transportation,
14 utilities, cement, steel making. You know, our friends at
15 CDPQ remind me that even when you're investing in wind
16 power, you're investing in cement, steel, and shipping,
17 because those windmills don't put themselves up. They
18 have to be transported.

19 So really what we're talking about with this
20 project is not just getting out the source of emissions,
21 but working with these companies to build out a strategy
22 for their own success and to manage risk an opportunity,
23 but also it's going to have to be done on a sector-savvy
24 basis. In other words, we're going to have to look not
25 just at the supply of fossil fuels, but also the use.

1 This is another reason why simply divesting from
2 fossil fuels won't get the job done. It's not just that
3 we lose our ability to make change if we divest, it's
4 also -- makes absolutely no difference to the users of
5 those fossil fuels, which is where the bulk of the
6 emissions are.

7 You know, the use of fossil fuels creates about
8 80 percent typically of where the emissions lie and that's
9 called Scope 3. That's why Scope 3 emissions are so very
10 important.

11 So the benchmark that we built out and launched
12 at the beginning of this year essentially, in points 1 to
13 10, maps out what needs to happen and assesses in its
14 first baseline where these companies are. So as you'd
15 expect, there are short-, medium-, and long-term goals for
16 emissions targets reduction, but also there's a focus in
17 item six on capital allocation. So it's not just the
18 decarbonization strategy, which is on point five, but it's
19 actually looking at where CapEx is going.

20 Now, some companies have begun not just to make
21 the commitments, that's good, but to follow up with the
22 CapEx alignment, but that's very, very important work.
23 And until that happens, we won't have confidence that
24 things are getting better.

25 Climate policy engagement, essentially this is

1 political lobbying. We want to make sure that companies,
2 when they're using shareowner funds are not speaking to
3 both sides of their mouths on the one hand saying they
4 support the Paris goals and on the other hand, either in
5 public or quietly behind the scenes, lobbying for rules
6 regulations, and policies, which are going to cut across
7 the Paris agreement.

8 Climate governance is number eight. We need
9 climate-competent boards. So we need boards across our
10 portfolio that are independent, diverse, and competent.
11 And on climate change transition, this means boards are
12 going to have to find new skills and experience. It's not
13 a matter of business as usual. Business as usual will
14 take us all collectively off a cliff. So we need a fresh
15 strategy, and often that's going to mean fresh thinking,
16 which will mean board refreshment.

17 And item nine is blank at the moment, because
18 we're doing the work as we speak. And it's the concept of
19 the just transition. Now, in the preamble to the Paris
20 agreement, people forget, because they kind of flip to,
21 okay, what's this all about. Let's get to page three.

22 The first section of the Paris agreement is all
23 about the just transition. And what it acknowledges is
24 unless the workforce and communities, particularly
25 vulnerable communities, are taken care of with these

1 is -- so we're not being coy about what happened in May.
2 It's just that the timing worked out at the AGM vote.
3 Now, all of you -- all of you will have seen, through a
4 very, very extensive media coverage, that CalPERS
5 supported a cohort of new directors coming on to the Board
6 of Exxon. Now, that has never been done before. I'm
7 delighted to see three of the candidates were successfully
8 voted on. And this has prompted a huge discussion about
9 the vehicle that was used known as Engine 1. Is this a
10 new phase in hedge fund activism? And there's a lot of --
11 I've got more to talk about on that.

12 But I think what is important on this slide is
13 not just the result at the AGM with the three new
14 directors coming forwards, the question is how did we get
15 to the point where that was possible?

16 So this slide really goes right back to August
17 2016 when this plan -- this strategic plan was adopted,
18 and Exxon was, as we'd expect, identified as one of the
19 systemically important emitters in what became Climate
20 Action 100+.

21 The following year, recognizing this, CalPERS
22 co-filed a risk reporting proposal, which passed. This
23 was the first time there had been a shareholder win on
24 climate risk reporting. So that in itself was an
25 extremely important milestone.

1 In response, the following career, Exxon
2 published its first sustainability report. You might
3 think, well, excellent. The problem is that that report
4 excluded what we think was about 80 percent of the story,
5 because it didn't include Scope 3 emissions. And so that
6 same year in -- out of concern with Exxon's then policy of
7 refusing to meet with shareholders, it was actually a
8 policy that Directors are not allowed to talk to
9 shareholders. They had a process whereby questions could
10 be sent to board members through the website, but only if
11 management chose to pass the message on. That was made
12 quite clear. We may or may not pass your message on and
13 you may or may not have a reply.

14 And really that is not the kind of accountability
15 that capitalism relies upon. It's got to be that the
16 shareowners can hold boards accountable in order to ensure
17 that we get the long-term performance that we need.

18 In August of 2020, CalPERS came back on the
19 question of climate risk and filed another proposal, this
20 time specifically to say, well, thank you very much for
21 calculating Scope 1 and 2. Scope 1 is when you're pulling
22 the oil out of the ground, scope 2 is when you're refining
23 it, but all the big production of emissions is when the
24 products are being used and that's Scope 3.

25 By then, there have been news that Engine 1 was

1 filing a proposal to -- not a shareowner proposal -- had
2 filed that it was going to be running new candidates for
3 the Board. And again, I want to say that if we had not
4 won the right to vote against Board members in an earlier
5 period under the corporate governance work, in other words
6 majority voting, we wouldn't now be in the position to
7 hold the Board accountable. And sometimes when we're
8 doing what look like rather boring, technical things, like
9 can we have an amendment to the bylaws, or could we have a
10 voluntary policy to ensure that Board members we can vote
11 against them, not just in support. And that work is
12 really what set the stage for this type of result at
13 Exxon.

14 So what CalPERS did was have extensive
15 discussions with the Engine 1 team about the criteria --
16 not the individuals, but the criteria, the missing skill
17 sets, and what was needed. And I also want to acknowledge
18 the vitally important role that CalSTRS played at this
19 stage. We were having weekly meetings and discussions
20 with our sister fund team at STRS. And when Engine 1 put
21 their candidates forward, STRS came out as the first
22 pension fund to support.

23 So CalSTRS is also actively involved in Climate
24 Action 100+. As we know from the earlier slide, this is
25 now an extremely large initiative. We have a community of

1 around \$54 trillion as signatories to Climate Action 100+,
2 all focusing on the same companies and all focusing on the
3 same goals.

4 Now, it's very important to note that we cannot
5 work as a group. We do not work as a group. Each
6 signatory has to follow their own path, guided by their
7 fiduciary duty. However, with over \$50 trillion now
8 agreed on the same priorities at the same companies, it
9 means that we're moving from cacophony to a choir. Some
10 coordinated thinking by investors is actually starting to
11 have an effect.

12 So not only did CalPERS run a proxy solicitation
13 in support of the candidates at Exxon, we were also at
14 Climate Action 100+ able to host a proxy briefing to allow
15 the four candidates to introduce themselves to the
16 signatories of Climate Action 100+. I think this was
17 extremely important, not just because it gave the
18 candidates and also investors at Exxon a chance to
19 understand what the new skills and experience were that
20 were coming forward, but also to ask really difficult
21 things like, well, how on earth are you going to make
22 change on this Board, if you come in as a minority.

23 The people are going to be feeling very bruised
24 and maybe unhappy about the fact that you arrived, because
25 some other directors, if you win, are going to lose and

1 well have to step -- so how are we going to work in that
2 type of environment.

3 So the discussion in that webinar, this global
4 initiative Climate Action 100+, I think, was very
5 important not just for establishing the credentials of the
6 candidates, but also their experience as board members and
7 their collaborative thoughtful approach to working with
8 others and building team at the Exxon board to push out --
9 to oversee management pushing out the new strategy.

10 CHAIRPERSON TAYLOR: I'm sorry. I'm sorry. I
11 just -- I've got a couple questions here. Sorry about
12 that.

13 Ms. Middleton.

14 COMMITTEE MEMBER MIDDLETON: Thank you, Anne.
15 This comment may have been better timed to come after Anne
16 finished this part of the presentation, but we've heard
17 the argument on a number of occasions that the proper
18 course for us to follow in responding to climate change is
19 to divest. And the alternative that staff has argued
20 consistently is engagement and partnership. And I think
21 what happened in May with the vote at the Exxon board --
22 ExxonMobil board is an absolute confirmation that the
23 strategy of engagement and partnership is working, and is
24 the right way to go. And on behalf of just an incredible
25 number of people, I want to thank Anne, our team, and all

1 the partners that we had at CalSTRS and across the board.
2 This was -- this was one of the times where the headline
3 read CalPERS and we had a big smile on our face.

4 (Laughter.)

5 CHAIRPERSON TAYLOR: And, Anne, I'm not sure you
6 got to the punch line, so let me get you to -- let you go
7 to the punch line. I wasn't sure where Lisa's comment was
8 fitting in, so I'm sorry. Go ahead.

9 MANAGING INVESTMENT DIRECTOR SIMPSON: No. Well,
10 thank you, for those kind words, Ms. Middleton. And I
11 also want to say not only was this an external partnership
12 with Climate Action 100+, with our sister fund CalSTRS, it
13 was an internal partnership as well. And a special thanks
14 here to Simiso Nzima who leads our corporate governance
15 work in Global Equity for really, really spending -- he
16 and his team taking such a lot of time, and care, and
17 effort with this. And without that one-fund, one-team
18 philosophy that we have internally, we couldn't have -- we
19 couldn't have done this. But thank you very much.

20 So the result of the vote as -- I think every
21 cliché in the book has been wheeled out to comment, you
22 know, it's a watershed, it's a turning point, it's a
23 historic occasion, it's a game changer. And I think it's
24 all of those things for the reasons Ms. Middleton just
25 said, because what it demonstrates is not just that

1 investors are requesting a response to climate change,
2 investors are requiring a response to climate change.

3 And for me this is a shift from thinking about
4 investment as this deployment of financial capital, and of
5 course it continues to be that, but it's understanding
6 these three forms of capital and how they need to be
7 managed, and then using our engagement responsibilities,
8 our engagement rights to make change, as Ms. Middleton
9 said, working with others.

10 So we now have a number of board members who were
11 voted out at Exxon, three new board members voted in, and
12 we'll be in discussions with the company in coming months
13 to make sure that we're closely following how the new
14 board at Exxon is going to be picking up the current
15 strategy. Remember that benchmark slide. If we to pull
16 up the Exxon score, you'd see on almost every measure that
17 Exxon is barely on the starting line, whereas other
18 companies in oil sector, Total, Eni, Equinor, Shell, BP,
19 their competitors are further along.

20 And we want to see Exxon picking it up and
21 improving its strategy, because, you know, the financial
22 condition of the company is very worrying. At the end of
23 the day, these risks show up in the share price. They
24 show up in the financials. So what's why it's so
25 important to address.

1 Can we move to the next slide.

2 --o0o--

3 MANAGING INVESTMENT DIRECTOR SIMPSON: So
4 likewise, another area of internal partnership with Simiso
5 and his team in Global Equity. The objective here is to
6 enhance total fund performance by increasing corporate
7 Board diversity. So what -- the work here -- and Simiso
8 has updated you on this in his annual program review each
9 year as he's coming along to do that, the goal is
10 ambitious. We said out KPI is that all public companies
11 in which CalPERS invests should have a dimension of Board
12 diversity ultimately.

13 But the beginning of this, because we have to
14 start somewhere, there's a lot of holdings in the
15 portfolio. At that point, as I said, there are about
16 10,000 Is seemed important that we focus on the big
17 companies because these are the leaders by example. It's
18 where we have the biggest economic stake and the focus was
19 the S&P 500. So the initial target for this five-year
20 plan was that all S&P 500 company boards should have a
21 dimension of board diversity.

22 Now, linking back to the priority on data and
23 corporate reporting, we're back to that same problem, just
24 like we are with climate change, it's very, very hard to
25 actually get reliable information so that you can assess

1 MANAGING INVESTMENT DIRECTOR SIMPSON: So since
2 the beginning of the plan, the first KPI has been met.
3 Although, it was a limited KPI for the reasons I've
4 explained. So now all S&P 500 companies do have a female
5 director. And since 2017 -- and again, I think this is
6 back to Ms. Middleton's point about the impact of
7 engagement, 65 percent of the companies that CalPERS has
8 engaged since 2017, have added at least one director.

9 So if you look at the broader market, we've just
10 given you a few numbers here to give you a sense, there is
11 progress, but we still have a very long way to go. This
12 Russell 3000 numbers show that I think we're demonstrating
13 that we can have an impact on this. We've got to get the
14 required reporting in better shape, because that's
15 actually then, I think, going to galvanize other
16 investors, because at the moment even attempts to assess
17 gender, people are looking at names, photographs, using
18 third-party data sources. We're trying to hand vet
19 individual board director status. This is really not
20 an efficient or effective way of working.

21 Can I have the next slide, please.

22 --o0o--

23 MANAGING INVESTMENT DIRECTOR SIMPSON: This is
24 just giving you the same trends and information that you
25 had on the previous slide. You'll see in blue we're on

1 the left where we were in 2016, and how things have
2 improved along the way. I think -- I'm just coming back
3 to Exxon, one of our successful cohort of three was a
4 model.

5 And you'll see I think the literature shows that
6 three people can be change agents in a group. It's called
7 the power of three. One person on their own can't do
8 it, even two will struggle, but it's generally understood
9 that with three we're going to start to change things.

10 So, for me, the interesting chart -- interesting
11 part of the chart is showing the rise in the number of
12 companies for S&P 500, which have three female directors
13 going up from less than a quarter to over a third.

14 Can I have the next slide, please.

15 --o0o--

16 MANAGING INVESTMENT DIRECTOR SIMPSON: So here's
17 an example just in the way we're approaching this
18 presentation, to give you a practical example. And this
19 is Lindsay Corporation. So in 2017 July, Simiso's team
20 identified this as a company that lacked board diversity.
21 What followed was request to engage with the board's
22 leadership of course.

23 In 2018, the company added a female person of
24 color to the board. And the reason for choosing this
25 particular example out of many is it's a chance to remind

1 ourselves of the role that the Diverse Director
2 DataSource, fondly known as 3D, has played in this. And
3 at an early stage in CalPERS work on diversity, we heard
4 often from companies, you know, if only there were people
5 who were qualified, you know, above those who they already
6 knew and played golf with or were familiar to their search
7 firm.

8 So we set up -- you know, it took a period of
9 time to do this, but set up the Diverse Director
10 DataSource, working again with CalSTRS, our sister found,
11 this is now housed on the Equilar platform. And it's, I
12 would just say, a runaway success. Through that platform,
13 there are now over a thousand diverse directors who have
14 been appointed to public companies. And I think it's been
15 a really practical way to gather talent together. And I
16 think David Chun, the founder of Equilar, was doing an
17 extraordinary job in really just taking an excuse off the
18 table, which is, well, we don't know where to find people.
19 Well, here they are hundreds of them ready, available,
20 qualified, and able to bring diversity to a board and all
21 the benefits that follow.

22 So next slide, please.

23 --o0o--

24 MANAGING INVESTMENT DIRECTOR SIMPSON: So now to
25 our governance priority with private equity. And just by

1 the nature of the private equity industry, where typically
2 CalPERS will be a limited partner for the most -- for the
3 most part, and the emphasis here really needs to be to
4 underline that word "limited". We're limited for a
5 reason. We're a limited partner, because it limits our
6 liability, and also because we're hiring a GP, a general
7 partner, because they have the skills and experience for
8 this style of investment, which we can't easily access
9 internally at CalPERS.

10 So there is real value to us in being a limited
11 partner. However, as with all good things, there's always
12 a downside. By being a limited partner, also we have
13 limited access to information, and that's intended. It's
14 part of the division of labor, the separation of roles and
15 responsibilities between limited partners and general
16 partners.

17 However, CalPERS is a co-founder of ILPA, the
18 Institutional Limited Partners Association, and has been
19 actively involved over the years and it's wonderful to see
20 Greg Ruiz, MID for Private Equity just appointed to the
21 Board of ILPA. So CalPERS is back on the board, which is
22 important.

23 The KPI was a tough one. It was to say a hundred
24 percent of core private equity partnerships should
25 complete the ILPA template on profit sharing and fee

1 reporting. This was important, because we didn't want
2 CalPERS just to be moving ahead and being a pain in the
3 neck to our GPs asking for information that no one else
4 had raised a hand calling for.

5 The importance of working -- again, it's our
6 partnership philosophy. In the course of working with
7 others is we want to lift all boats. We want to make sure
8 that the industry itself improves on alignment with the
9 LPs who are financing the industry. And this is an
10 important first step.

11 May I have the next slide, please.

12 --o0o--

13 MANAGING INVESTMENT DIRECTOR SIMPSON: So the
14 outcome here, and many thanks to Dan Tanner from the
15 private equity team for helping us with assessing the
16 progress on this important area of work. At this stage we
17 were putting the presentation together, 94 percent of
18 CalPERS' private equity partnerships were using the ILPA
19 fee template. That's by number. If you look at net asset
20 value, it's 98 percent of the private equity portfolio.

21 So I think this is an extraordinary sign of
22 progress in the industry, and I think really speaks very
23 well, not just to the engagement model, but also to
24 partnership and how we can -- how we can bring
25 improvement.

1 May I have the next slide.

2 --o0o--

3 MANAGING INVESTMENT DIRECTOR SIMPSON: The next
4 priority, number six, is arguably the most difficult and
5 it's the manager expectations work. And why is it
6 difficult?

7 Well, the issues raised by sustainability are
8 complex. They're evolving rapidly. We've already
9 acknowledged we're in a situation where we don't have
10 data. And there's nothing an investor hates more than not
11 having data. The deploying of capital into uncertainty is
12 the day job of an investor.

13 However, when we don't have information on some
14 critical issues, not only is it a challenge in our
15 engagement work that it's the focus of our advocacy to get
16 things improved, when we're looking at how to integrate,
17 it also means that we have to do a lot of work in order to
18 make sure that we have the data set, the analytical tools,
19 and an approach which is going to work.

20 So the way that this priority has evolved is as
21 follows. The objective is to ensure that no less than 100
22 percent of investment decision-making policies and
23 processes reflect relevant ESG considerations. And if I
24 had a little pen, I would underline the word "relevant".

25 There's a lot going on out there. There are

1 many, many issues of importance to society, to
2 communities, to workers. Our focus is on what is it
3 that's relevant to us as fiduciaries? What is it that's
4 relevant to us as long-term investors thinking about how
5 to manage risk and how to make the most of opportunities.

6 So this is a narrower set of concerns for CalPERS
7 from an investment point of view. This doesn't mean that
8 the other issues don't matter. It just means that for us
9 as a fiduciary, we've got to be very disciplined about how
10 we approach these issues.

11 So the KPI for this objective is that all
12 managers have policies and procedures that are including
13 ESG information in decision-making. Remember, that's for
14 both our internal and for our external managers. And
15 furthermore, that the asset classes establish and
16 implement documented procedures for due diligence,
17 contracting, and monitoring of the managers.

18 So let's now turn to each asset class example of
19 how they've gone about this.

20 Could I have the next slide.

21 --o0o--

22 MANAGING INVESTMENT DIRECTOR SIMPSON: So let's
23 begin with global equity. As this is about half the fund,
24 so by value the biggest asset class. Now, I want to go
25 back to something I mentioned at the start, which is the

1 approach on integration each asset class has taken
2 reflects the strategy of the asset class. So in this
3 case, for global equity, as everyone knows, our strategy
4 here is to invest according to an index. That gives
5 CalPERS an efficient way to harvest economic returns. And
6 it's efficient, because it gives us a stable portfolio.
7 It's also constructed in a way that gives us a long-term
8 position.

9 So it now means is the strategy is engagement.
10 We do have a small number of external managers. We put a
11 link at the bottom of the slide, so that you can see what
12 the Sustainable Investment Practice guidelines are for
13 those external managers.

14 But the important thing here is, just as with the
15 Exxon vote that we were just talking about, is that we're
16 able to work with others to use our ownership position to
17 bring about change. So positive for risk management and
18 going to help set companies in a better -- companies in a
19 better position, improve the odds. That's what we're
20 looking for.

21 Back to Ben Meng's advice on thinking in bets.
22 We want to improve our odds of meeting the returns that we
23 need.

24 So here -- and thank you to the Corporate
25 Governance team for providing this. We just want to give

1 you, in this presentation, a few highlights from this
2 proxy season, so that we could have -- we could have
3 filled this slide with probably another three dozen
4 examples. So these examples really show -- excuse me --
5 how the sustainable investment agenda is evolving and the
6 broad support that many of those issues are starting to --
7 starting to gain from investors.

8 So I'll just run through what these are very
9 quickly. McDonald's. CalPERS, and many other investors,
10 voted against the Board Chair Mr. Hernandez. And this was
11 because of a failure of risk oversight around the
12 departure of CEO Easterbrook, who left in somewhat
13 unsavory circumstances with a rich reward. And I'm sure
14 you're all familiar with this from the media coverage.

15 The next example is Wells Fargo. There were
16 several issues of concern on the ballot there. But I
17 think the important thing is there was a shareowner
18 proposal supported by SEIU calling for a racial equity
19 audit at Wells Fargo. And we saw this at a number of
20 companies this season, which CalPERS has supported. We've
21 been very consistent with our human capital management
22 advocacy at the SEC. It also absolutely reflects CalPERS
23 commitment to diversity, equity, and inclusion. And
24 through our research work, we have conviction that these
25 are relevant issues for investment performance as well.

1 Likewise, at Johnson and Johnson, we also
2 supported a call for a racial equity audit and also a
3 proposal which was looking for a report on access to
4 vaccines, very much on the equity and inclusion side of
5 life.

6 Exxon, of course, we've talking about the Board,
7 but I do also want to flag that we won other very
8 significant votes this season at Exxon, particularly on
9 climate lobbying and on political lobbying more generally.
10 Two separate votes that were successful.

11 Berkshire Hathaway is an important AGM, because
12 Warren Buffett, it's his last hurrah. The Sage of Omaha
13 went out defiantly in opposition to this climate risk
14 proposal that CalPERS put forwards to approve Climate
15 Action 100+. Now, Mr. Buffett has a very large personal
16 stake in Berkshire Hathaway, so we knew with his
17 opposition this would be a very tough one to win, but it
18 was a very significant vote of support elsewhere across
19 the shareholder base of Berkshire Hathaway where really,
20 you know, we felt the argument -- you know, Warren
21 Buffett's argument was, well, we can't consolidate all the
22 information on the emissions from our different companies
23 that we own a piece of. I

24 I said, well, you have to do that for the
25 financials, right? That's what the consolidation process

1 requires you to do, and we don't see climate risk as being
2 any different. We expect to have, you know, consolidated
3 reporting from a conglomerate like Berkshire Hathaway.

4 Chevron we want to flag, because the -- we won
5 last year a proposal on political lobbying at Chevron.
6 But this year, a very important proposal passed, won a
7 majority, which calls on Chevron to -- and the phrase is
8 substantially reduce its Scope 3 emissions. So when you
9 and go to the gas station and buy petrol or gasoline,
10 depending on where you are buying it, the Scope 3
11 emissions that come from the use of Chevron's products by
12 its retail customers, by its commercial customers is
13 really where 80 percent or so of the emissions.

14 So by shareholders saying yes, you need to take
15 responsibility for the whole cradle-to-grave production of
16 emissions from your business, that itself is very
17 important. But secondly, it passed saying these have to
18 be substantially reduced, which really means that Chevron
19 has to be now in the business of dialogue with its own
20 customer base as some of the European oil companies
21 already are.

22 And finally Phillips 66. We're putting this
23 year, because again Climate Action 100+ company, and it
24 was a political lobbying proposal calling for full
25 disclosure and alignment with shareowner interests passed

1 as well.

2 Let me turn to the next slide. Thank you.

3 --o0o--

4 MANAGING INVESTMENT DIRECTOR SIMPSON: So global
5 fixed income, a completely different strategy, as you are
6 all aware. So also an internally managed portfolio for
7 the most part. However, we've put the sustainable
8 investment practices guidelines with a small number of
9 external managers. You can see how we're -- how we're
10 talking to them and what the expectations are.

11 Now, global fixed income is not an index
12 strategy. It's an actively managed portfolio. That means
13 that the appropriate point to start thinking about
14 sustainability is in the due diligence for individual
15 investment decisions, so it's fundamental company
16 analysis. So completely different to global equity.

17 And I just want to note that in talking to our
18 team members, I'd like to thank Paul Kramer for the work
19 that he did to provide the update to this presentation.
20 And he has been able to explain very clearly that the way
21 that there is an integration of these sustainability
22 factors in fixed income begins really at the beginning
23 with screening tools for investment grade debt. These are
24 used to help identify risk and typically from Fed party
25 providers.

1 And then also, it is these -- the sustainability
2 factors are also used on a relative value basis, so that
3 if there are two recent equal opportunities, this will tip
4 the balance in the decision making, where it's considered
5 to be relevant to the outcome on risk for the company.

6 We've also put a couple -- an example here, as
7 with the other sections of the presentation, just to give
8 you a sense of what this all looks like in practice. So
9 we've highlighted here CalPERS investments in green and
10 sustainability bonds. And the purpose of these bonds
11 obviously is to provide CalPERS with what we consider to
12 be equivalent credit risk. There's the conventional bonds
13 of the same issuer. And Paul has emphasized when we were
14 preparing this presentation, that the issue is activities
15 in total need to be assessed in making that decision.
16 It's not just looking at that bond itself as though it
17 were a separate part or a separate entity.

18 But the proceeds of these bonds are used to
19 finance projects, which are going to improve
20 sustainability overall. So some of the examples that
21 we've put on this slide, no doubt, no surprise what they
22 do with renewable power, energy efficiency, clean
23 transportation, and also, you know, the greening of
24 buildings.

25 And again, if you click on the link at the

1 bottom, you'll be able to see the detailed sustainable
2 investment practice guidelines that global fixed income
3 uses.

4 Can we turn to the next slide.

5 --o0o--

6 MANAGING INVESTMENT DIRECTOR SIMPSON: So manager
7 expectations in private equity. Again, this is a
8 completely different investment structure as we were just
9 saying. CalPERS typically, other than through
10 co-investments, is a limited partner when deploying
11 capital. And therefore, we're relying on the general
12 partner to manage CalPERS funds, but also to be picking up
13 these important issues on ESG.

14 So the important thing here is that private
15 equity has surveyed and determined that 100 percent of the
16 external core managers in private equity have their own
17 ESG policies. And that's appropriate, because we need the
18 GPs to have the power and the responsibility to implement.
19 It's very important that the GPs have these policies. As
20 a limited partner, this is something we can -- we can ask
21 for and we can discuss, but the responsibility is with the
22 GP.

23 Also, and private equity has included ESG
24 considerations in CalPERS side letter for new managers,
25 and also in the internal process for appraising and

1 monitoring progress is now an ESG section in the final
2 investment recommendation that staff make. And there are
3 two examples of companies in our portfolio that Dan Tanner
4 kindly provided, PurposeBuilt Brands and Metallo, two
5 companies both where the business case for their success
6 is firmly rooted in sustainability.

7 Now, we'll see that we don't have the Sustainable
8 Investment Practice guidelines for private equity here.
9 That's no surprise, because as you know, private equity's
10 new strategy is just being built out and sustainability is
11 one of the five core components. So that previous work
12 has been retired and private equity is in the process of
13 building that piece of the structure as we speak.

14 May I have the next slide, please.

15 --o0o--

16 MANAGING INVESTMENT DIRECTOR SIMPSON: So here's
17 our other major private markets asset class, real assets.
18 Now, there's a different structure for real assets,
19 typically funds of one. And this has allowed real assets,
20 through separate account contracts, to have a direct
21 requirement for ESG to be integrated into the management
22 process.

23 This is not just -- we've had and seen a lot of
24 focus on environmental issues, and rightly so, but I think
25 it's also important to know that the Responsible

1 Contractor Program, which, if you like, is an early
2 example of CalPERS' thinking about human capital
3 management - it goes back many years - there is a hundred
4 percent compliance across real assets and infrastructure
5 with that Responsible Contractor Program.

6 A further element is that again our philosophy of
7 partnership at work once more that CalPERS is part of the
8 Global Real Estate Sustainability Benchmark and its
9 equivalent for infrastructure, which CalPERS actually
10 helped to build out back in the day.

11 GRESB, a somewhat unpronounceable acronym, but --
12 this enables us, through partnership, to gather in data
13 from all of the managers that are being used and also for
14 us to be able to see how we are doing relative to other --
15 to our peer investors who are also part of GRESB.

16 What real assets have also done is take their own
17 sustainable investment practice guidelines, which again --
18 I put a link in the bottom of the slide, and they've
19 actually incorporated it into their procedures manual.
20 They've included ESG questions into manager evaluations,
21 and also that they have integration in their reporting,
22 annual investment planning, the third-party assessments,
23 and also the energy optimization initiative, which the
24 Board will be familiar with. It's been focused on
25 improving energy efficiency, but it's also turned out to

1 be very financially additive for the fund as well.

2 So -- and just to give you a sense of how big
3 that program is -- and thank you very much to Rina Lessing
4 and Fanny Bourdais de Charbonnière over the last four
5 years, 220 energy optimization opportunities have been
6 identified, which shows the real scope and scale of that
7 work.

8 May I have the next slide.

9 --o0o--

10 MANAGING INVESTMENT DIRECTOR SIMPSON: So that
11 really is a whistle stop tour of five years work around
12 these six priorities that were identified based on
13 research, focusing on the economics, and also making sure
14 that we are really being disciplined about what we tackle,
15 how we tackle it, and that we really have got the
16 investment (inaudible)--

17 (Automated voice.)

18 CHAIRPERSON TAYLOR: Can somebody mute that?

19 (Automated voice.)

20 CHAIRPERSON TAYLOR: Is there a way to mute that?

21 MANAGING INVESTMENT DIRECTOR SIMPSON: Yeah. I
22 hope whoever it is is able to get back in soon.

23 So what are the next steps? The five-year --
24 this five-year program of work, as I said at the beginning
25 really has involved every single division of the

1 enterprise, from Legislative Affairs, Legal, Stakeholder
2 Relations, Public Affairs, the Executive Officer, the
3 Investment Office, all asset classes and programs have had
4 a role to play. And that in itself, I think, has been
5 incredibly valuable. And there are many people to thank
6 in marking the progress that we've been able to make.

7 So what's next? Well, the first thing to say,
8 I'm not sure we need to keep saying it, but it never
9 hurts. Maintain our focus on the risk return impact of
10 sustainability to support CalPERS investment objectives.
11 That is our fiduciary duty and it also gives force when we
12 speak as an investor to be able to reflect the investment
13 case. And we are also very respectful of the fact that
14 other groups with other points of view and other mandates
15 will be picking up a range of other issues or maybe
16 approaching the same issues, but in a different way. That
17 is how society and the wider economy work. But for
18 investment, we really have to stick to our knitting and
19 not stray out into -- beyond the scope of our fiduciary
20 duty.

21 I said at the beginning also that research or
22 life-long learning research for us is absolutely the heart
23 of what we do, because we need to be grounded in the
24 economics. And if we're going to be grounded in the
25 economics, we need to be grounded in the evidence. So we

1 have issued two requests for information under the SIRI,
2 this time SIRI 3, Sustainable Investment Research
3 Initiative. We've issued one on climate change to look at
4 specifically the issue of capital allocation. And the
5 other, under human capital management, we really do want
6 to better understand the dynamics around diversity,
7 equity, and inclusion. And we also want to inform our own
8 understanding of some specific programs that we have in
9 this field as well.

10 So those are RFIs went out. We had, I believe,
11 17 responses from a very wide range of exceptional
12 sources. We've narrowed it down to two. And many thanks
13 to Nelson Da Conceicao who's been leading our research
14 effort on sustainable investment. He and I interviewed
15 the final two last week, so we'll be in a position to
16 contract in the near future.

17 The other element that's important for us is that
18 this whole focus on sustainable investment has evolved
19 rapidly. Five years ago, CalPERS was very much in the
20 lead. We were ahead in some areas, but it's been a --
21 it's been very encouraging to see so many of our peers and
22 fellow investors developing strategies, modeling new
23 analytical tools, gaining new insight into this whole
24 field. So we see that there's going to be an opportunity
25 to benchmark progress and also benchmark possibilities,

1 So with that, Madam Chair, thank you very much.
2 And I'll be glad to answer any questions.

3 I would also like to say that the other
4 contributors to this presentation are also available.
5 James Andrus, Simiso Nzima, Dan Tanner, Nelson Da
6 Conceicao, Rina Lessing -- am I missing someone? Simiso
7 -- Simiso Nzima.

8 And yeah, so if you have questions about specific
9 bits of the program, we'll be able to bring them forward
10 to answer your questions.

11 Thank you.

12 CHAIRPERSON TAYLOR: Thank you, Anne. I want to
13 thank you and your team for this amazing report, and going
14 over all of our successes, but also going over our
15 challenges, because we know this is difficult work. And I
16 just wanted to make a couple of comments first before I
17 move on.

18 On page seven, you spoke about -- well, let me
19 get back there real quick -- the TCFD report and total
20 fund exposure to climate risk, carbon footprint calculated
21 for each asset class, Climate value-at-risk analysis. So
22 that's interesting to me, because it always makes me
23 wonder while we want to not divest, what happens if, as we
24 go through this, right, because this is continuing work,
25 that we have done a climate value-at-risk assessment,

1 right, and we find that we have stranded assets or they're
2 not stranded right now, but they will be if we're to reach
3 the Paris Accord 2050 benchmark. So what is our plan for
4 that?

5 MANAGING INVESTMENT DIRECTOR SIMPSON: Thanks
6 very much. Let me -- Dan, can I pass this one over to
7 you? This is very squarely investment strategy.

8 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

9 Yeah. So, I'm sorry, Ms. Taylor, let me see if I
10 can get the right person forward to answer the question.
11 But can you repeat the question for me, please?

12 CHAIRPERSON TAYLOR: Sure. When we're talking
13 about the climate value-at-risk analysis and our carbon
14 footprint being measured for each asset class, which means
15 each of our investments, right? So how do we -- how do we
16 mitigate any issues as we're looking at these two data
17 points, if we see that we're going to end up with stranded
18 assets or -- right? So whether it's coal or fossil fuel
19 of some kind, you know, they have to -- we have to be able
20 to, in our portfolio, meet the 2050 Paris Accord.

21 So as we look at this - and it's not just us.
22 This is going to be other investors and we see XYZ is now
23 going to be -- they haven't changed their business model,
24 so they're going to be a stranded asset, how do we in the
25 future mitigate this, so that we're not holding that

1 stranded asset?

2 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: It's
3 a great question. And I would say that it's probably
4 asset class by asset class specific. And we can certainly
5 go through each asset class, if that -- if that helps at
6 some -- either now or at some point.

7 Certainly in the case of the public equity
8 portfolio, it's more about -- and again, Anne spoke to it,
9 more about all of our work around engagement and making
10 sure that all of our managers are thinking about this.
11 You know, as we talked about, you know, our equity
12 portfolio is primarily indexed.

13 So as result of the index, we generally own it.
14 In the case of fixed income, it's much more of an active
15 approach, as Anne said. Now, this is fixed income, of
16 course, so it's more about credit and it's less about
17 asset ownership, but certainly it's part of the mosaic
18 there as well.

19 In the case of real assets and in the case of
20 private equity -- in the case of private equity, it's more
21 manager expectations. In the case of real assets, it's
22 probably more on us actually having blocks of what can and
23 cannot come into the portfolio and making sure that we
24 don't have these stranded assets. But it's a -- it's a
25 great question and it's -- this, for us, is about that

1 integration of these considerations into every investment
2 decision that we make, so that it varies across the asset
3 class, but certainly it needs to be unequivocally part of
4 the -- part of the overall calculus of our investment
5 decision.

6 CHAIRPERSON TAYLOR: Okay. Maybe we should look
7 at that at a later day, maybe during ALM or something. I
8 don't know, but it's just a concern. When I saw that, I
9 was like whoa.

10 And then I had one other question for Anne
11 before -- and we've got several other questions. We
12 talked work -- the S, right, labor, wages, health, and
13 especially after the pandemic, taking care of their health
14 care et cetera. So one of the things that you talked
15 about, and I can't remember what page right now, but -- is
16 getting accurate reporting --

17 SENIOR STAFF ATTORNEY SIMPSON: Right.

18 CHAIRPERSON TAYLOR: -- as we do this. And I
19 know that you -- we've one to the SEC on labor issues, et
20 cetera.

21 MANAGING INVESTMENT DIRECTOR SIMPSON: Right.

22 CHAIRPERSON TAYLOR: As we get accurate
23 reporting, are we also including -- that reporting can't
24 just come from the company. It should also be like
25 checked off by the employees, because a company could say

1 hey, yeah, we're doing great. You know, we've provided
2 health care. We've provided a living wage. We're doing
3 everything the -- you know, everyone is asking us to do.
4 And then if you go to the employees, they're like, no. So
5 if -- is that included in this?

6 MANAGING INVESTMENT DIRECTOR SIMPSON: Yeah.
7 Thank you for the question. An absolutely right
8 observation, which is it's human nature. We all like to
9 tell the good news. And it's the good news from our own
10 point of view. Bad news for different points of view, you
11 know, really require third-party verification. And that
12 is why we have auditors. We know on the basic financials
13 if companies were left to do their own -- go their own
14 sweet way saying what the financial condition of the
15 company would be, it might be rather a rosy picture. And
16 the whole point of having an Audit Committee, and having
17 an auditor, and having an internal audit function, and
18 having regulators to make sure that there is truth and
19 fairness in corporate recording, that whole system needs
20 to be brought to bear on issues like human capital
21 management, and it also needs to be brought to bear on
22 issues like climate change reporting.

23 And that's really why we've evolved from saying
24 let's move forward with some voluntary best practices,
25 we're now saying no. This has got to be dealt with at the

1 top table. It's got to be mandated reporting. It's got
2 to have standards that are bringing forward information,
3 which is then integrated into the financials. That means
4 it goes through the whole internal control reporting cycle
5 with the company, and also the auditor, and ultimately the
6 regulator for those companies that are overseen by
7 regulators.

8 CHAIRPERSON TAYLOR: Thank you. Yeah, because
9 I'm concerned that it's not just the disclosure of the
10 information, but the verification.

11 MANAGING INVESTMENT DIRECTOR SIMPSON:
12 Absolutely.

13 CHAIRPERSON TAYLOR: And I think we would be
14 carrying some risk there, if we're not doing the
15 verification, so --

16 MANAGING INVESTMENT DIRECTOR SIMPSON: Correct.
17 So our mantra on this is we need information which is
18 standardized, timely, integrated, into the financials, and
19 verified.

20 CHAIRPERSON TAYLOR: Exactly. Thanks.

21 MANAGING INVESTMENT DIRECTOR SIMPSON: Yes.

22 CHAIRPERSON TAYLOR: Appreciate it.

23 So my -- next is Ms. Paquin.

24 ACTING COMMITTEE MEMBER PAQUIN: Thank you, Madam
25 Chair. And, Anne, thank you so much for a great report.

1 It was very exciting to see the progress made on this
2 plan. I remember very clearly all the discussions around
3 the establishment of the plan. And I think -- I have
4 actually two questions.

5 And the first goes back to Ms. Taylor's question
6 of Dan Bienvenue. And I think that as we look to
7 fulfilling the 2050 net zero promise, I was curious to see
8 if there was any intention to come up with interim targets
9 that I know CDPQ and maybe some others are talking about
10 that and starting to do that, because it just seems like
11 it would be a heavy lift if we didn't start thinking about
12 it and kind of breaking it out into smaller pieces as
13 opposed to just getting to 2050 and then having to do a
14 lot of uplift. So is that part of a potential next part
15 of the strategic plan going forward or is that something
16 that we could talk about at some point?

17 MANAGING INVESTMENT DIRECTOR SIMPSON: Yeah.

18 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:
19 Certainly be happy to talk about it.

20 Why don't I jump in and then, Anne, if you have
21 things to add, definitely please do. Thank you for the
22 question. Yes, definitely something that we'll want to
23 talk about. As an Anne mentioned on her final slide on
24 next steps, I think the first thing we'd want to see get
25 done as we finish our next round of the Sustainable

1 Investment Research Initiative, we do think that that
2 research will yield some healthy results that will help us
3 to plan some of these things.

4 And then the second thing, and candidly is that
5 we believe we need a permanent CIO in the Chair to let us
6 really also use that to formulate the overall forward
7 looking strategy. So between those two things, expect
8 that we would come back with a forward strategy on -- in
9 the future that would allow us to figure out what does the
10 next, you know, five years, 10 years, interim targets, all
11 of that look like.

12 So I'll pause there. I don't know if Anne has
13 anything to add, but that's -- that would be my sort of
14 high level response to the question.

15 MANAGING INVESTMENT DIRECTOR SIMPSON: Yeah. No.
16 Thanks, Dan. You remember the slide on the Climate Action
17 100+ benchmark. This is where we've really made our first
18 important step on targets and timing. On that, we've
19 built out a request for these companies to produce short-,
20 medium-, and long-term targets along the dimensions that
21 we were talking about strategy, emissions reduction,
22 CapEx, political lobbying, compensation, and all that good
23 stuff.

24 The reason we put those timelines in, and it's
25 going to look different, depending on which sector the

1 company is in, we need to be able to mark progress along
2 the way exactly as you're saying. Now, the danger if we
3 just look at the portfolio, our own portfolio, separate
4 from the real economy is we can do a lovely job looking
5 like we have a net zero portfolio. However, if the real
6 economy hasn't made the transition, we're still exposed to
7 climate risk. In other words, we can run, but we can't
8 hide. There's nowhere to put 450 or 60 billion dollars in
9 a safe place in the world markets, separate and away from
10 climate change.

11 So that, I think, is a bit of a balancing act at
12 the moment. There are some investors reporting in to the
13 UN Net-Zero Asset Owner Alliance with interim targets, but
14 they're intending to achieve them by divesting, by
15 shedding assets. And our argument back on that is, well,
16 just because you don't own them, doesn't mean these assets
17 aren't still producing emissions. So we've really got to
18 keep this focused on the real economy. And I think
19 that -- you know, that is really the topic of conversation
20 and the run up to COP26, because without policymakers
21 driving this, there's going to be a limit to what the
22 financial markets can do on their own. So that's the
23 partnership theme all over again.

24 ACTING COMMITTEE MEMBER PAQUIN: No. I
25 appreciate that Anne and Dan. And my last question also

1 is on the carbon footprint reports that we're done for all
2 the asset classes and just curious if there were any other
3 reports that kind of merit global equity where there were
4 a finite small group of carbon emitters which you could
5 really target or was it just spread throughout?

6 MANAGING INVESTMENT DIRECTOR SIMPSON: I would
7 have to go back and look at the other asset classes.
8 Because we don't have that result, doesn't mean there
9 isn't something buried in the analysis, that -- let me go
10 back and speak with Nelson about this, unless Nelson Da
11 Conceicao is on the line and he can answer that question
12 immediately, since it's --

13 ACTING COMMITTEE MEMBER PAQUIN: That's okay. If
14 you want to follow up later, Anne, that's fine.

15 MANAGING INVESTMENT DIRECTOR SIMPSON: Oh, that's
16 great. Yeah, we'll do that. I'll make a note.

17 ACTING COMMITTEE MEMBER PAQUIN: Thank you.

18 CHAIRPERSON TAYLOR: Thank you, Ms. Paquin.
19 My next person is Mr. Miller.

20 VICE CHAIRPERSON MILLER: Yes. Thank you, Anne.
21 I always look forward to your presentations and hearing
22 about the fabulous work of this team. And it's especially
23 near and dear to my heart. I spent my entire career as an
24 environmental advocate, as a regulator protecting the
25 environment, doing labor rights and advocacy, civil rights

1 and advocacy. And to see CalPERS continue to really lead,
2 implement, get this stuff deployed in a way that's
3 integrated and is really producing results that continue
4 to inspire me, inspire our peers, it's extremely
5 gratifying. Because when we first started a lot of this,
6 it was just seen as a distraction. You know, it's this
7 hippie-dippie distraction stuff and it's not for serious
8 investors.

9 And now, you know, the whole world seems to be
10 coming around. No, this is about risk mitigation. This
11 is about long-term investment. This is about maximizing
12 the performance of our funds for our members and their
13 beneficiaries. And it's just one of the things I really
14 look forward to these reports, the results, and more fine
15 news in the future. So a hearty thank you to you and to
16 the entire team.

17 MANAGING INVESTMENT DIRECTOR SIMPSON: Thank you.

18 CHAIRPERSON TAYLOR: I'm talking and I had it
19 muted. Sorry. Thank you, David.

20 Next is Mr. Rubalcava.

21 COMMITTEE MEMBER RUBALCAVA: Thank you, Ms.
22 Chair.

23 Anne, congratulations on a very nice report to
24 you and your team. I wasn't here when this plan was
25 developed and adopted, but I think it's beautiful how ESG

1 has been embedded in both the risk and the return. So
2 there's -- they see the potential for holding back the
3 economic growth, the long value creation, but at the same
4 time there's a lot of opportunities.

5 And as we -- and as we -- the earlier discussion
6 I enjoyed about -- the whole thing about the strategic
7 asset allocation is coming forward and how to value and
8 track decisions we make. It's clear that private equity
9 is going to play a bigger and bigger role. And you
10 mentioned in the manager expectations how there's some --
11 ESG has been incorporated in some of the decision-making,
12 but I'm still curious -- you mentioned side letters. And
13 so I'm excited about that and I'm looking forward to more,
14 but the other -- I just want to follow what Mr. Miller
15 said. He's talked about how -- he made terminology about
16 how -- especially in climate change, how the -- you know,
17 it's basically embraced and accepted that we need to do
18 this.

19 And I think another area where it's becoming more
20 and more apparent that we need to recognize is diversity
21 and inclusion, which you had a nice little portion on in
22 your report. I think the world -- because of the -- the
23 world is coming around to recognizing it, so -- and I
24 think this is an area where I think it's harder, where
25 you're still developing strategies how to collect the data

1 and report on it, especial -- and so I'm curious what
2 strategies, or how you see this will be impacted, or will
3 be applied, I guess, to the private equity, the private
4 markets, where it's not this transparent how -- have you
5 guys been thinking about that? I'm just curious if --
6 what has been the thinking there and what can we expect in
7 the future?

8 But nonetheless, it's beautiful work and you and
9 your team are doing excellent. And I know I sent you
10 off-line a little congratulatory. It was very good work
11 on the ExxonMobil. So thank you.

12 MANAGING INVESTMENT DIRECTOR SIMPSON: Yeah.
13 Well, on behalf of the many people who are behind this
14 work, thank you for those kind words.

15 To your question, Mr. Rubalcava, about private
16 equity, it gets back to what's our role as a limited
17 partner. And this is where I think our partnership
18 through ILPA is very important. ILPA has formed a
19 diversity, equity, and inclusion committee. We have a
20 team member, James Andrus who serves on that committee.
21 And what I observed in the GP community is a growing
22 appreciation of the importance of diversity, equity, and
23 inclusion, to the extent that, you know, one of our core
24 private equity managers has actually established a credit
25 facility, offering companies better rates of interest, if

1 they make progress on board diversity.

2 Now, if that's not making the investment case and
3 putting money on the table, I don't know what is. But I
4 definitely think that the private equity markets have the
5 potential to go further and faster, even when the public
6 company markets on some of these issues. And it's by the
7 nature of the role the GP plays with the company, you
8 know, they're a major stake, typically board seats. You
9 know, there's even a discussion in some academic circles
10 at the moment, is the private equity governance model one
11 to be copied? Not the relationship between LPs and GPs,
12 but the relationship between the GP and the company is one
13 of -- is one that is much closer and of more significance
14 than it's possible to have, you know, with many, many
15 scattered investors in the public market holding.

16 So I guess that's a way of saying I think there
17 is a tremendous debate going on about this in the private
18 equity community. There's a lot of innovation, like the
19 credit facility that I just mentioned. And certainly
20 through ILPA, this is a topic of real importance.

21 And, you know, CalPERS returning to the Board of
22 ILPA, I'm sure this is going to be an area where we'll be
23 able to learn more and understand better what's possible,
24 and what's going to be additive to performance.

25 COMMITTEE MEMBER RUBALCAVA: Well, thank you and

1 we look forward to -- as new developments and new
2 reporting. Thank you, Anne. Appreciate the response.

3 CHAIRPERSON TAYLOR: Thank you, Mr. Rubalcava.
4 Anne, I just -- I forgot to tell you. On page 20 where
5 you were talking about some of the successes we had at
6 proxy voting this season, I just wanted to congratulate
7 you on all of those successes as well, but specifically on
8 the companies that you pushed the racial equity audits.
9 Very appreciative of that. And I know that's hard work
10 and I appreciate that very much.

11 Next is Mr. Jones.

12 Thank you.

13 COMMITTEE MEMBER JONES: Thank you, Madam Chair.
14 And, Anne, I just echo my colleagues, thank you for a
15 comprehensive and fine report. And I also extend our
16 thanks to the staff members who worked with you on this
17 report. And it just shows how important our work is based
18 on data and evidence.

19 So while you made reference to your five-year
20 plan talking about five years ago, I remember 2013 --

21 (Laughter.)

22 COMMITTEE MEMBER JONES: -- when you formed
23 the -- that academic group to study to collect data --

24 MANAGING INVESTMENT DIRECTOR SIMPSON: Yes.

25 COMMITTEE MEMBER JONES: -- to help drive and

1 influence the impact about sustainability factors that
2 would impact the risk and return profile for CalPERS. And
3 so I would just like to suggest that you continue that --
4 our three-pronged strategy of engagement, advocacy, and
5 integration, because it's working and continue to partner
6 with our peers, and -- because we're now seeing that
7 long-term results of those kind of activities are coming
8 to fruition, so continue the good work.

9 MANAGING INVESTMENT DIRECTOR SIMPSON: Thank you,
10 President Jones. Much appreciated.

11 CHAIRPERSON TAYLOR: Okay. Anne, thank you, Mr.
12 Jones. That was excellent.

13 It looks like we are done with Board commentary.
14 So I understand we have seven people waiting online to
15 give commentary. If -- Mr. Fox, if you want to start.

16 STAKEHOLDER RELATIONS CHIEF FOX: Yes, Madam
17 Chair. The first caller is Mr. Cunningham.

18 MR. CUNNINGHAM: Yep. Can you hear me now?

19 CHAIRPERSON TAYLOR: Yes, we can.

20 MR. CUNNINGHAM: Well, I'm going to go -- okay.
21 I'm going to go ahead as if you can. So my name is
22 William Michael Cunningham. I'm an economist based in
23 Washington D.C. And for the past 30 years, we founded one
24 of the first sustainable investing research firms,
25 Creative Investment Research in 1989. I'm and adjunct

1 faculty member Georgetown University. I hold an MBA in
2 finance and a master's in economics, both from the
3 University of Chicago. And I'm also a member of the
4 non-fiduciary investment consulting spring-fed pool at
5 CalPERS.

6 Now, my comments concern your sustainable
7 investment five-year strategic plan and where we think the
8 field is going. We recently submitted a rulemaking
9 petition to the SEC. Our petition, 4-774, calls for a
10 comprehensive framework concerning public company promises
11 of support for Black Lives Matter. As of today, based on
12 our research, 249 corporations have pledged a total of 65
13 billion in support of Black Lives Matter. Now, that's 14
14 percent of CalPERS' assets.

15 We worked in the 1990s with early shareholder
16 activists, like the Interfaith Center for Corporate
17 Responsibility, the United Methodist Church and others,
18 who were filing resolutions at ExxonMobil and Chevron.
19 And I'm glad to see a lot of those efforts come to
20 fruition, because they were focused on uncovering and
21 understanding long-term performance and risk management
22 factors impacting public companies.

23 Clearly, norms for business reporting activities
24 are changing rapidly in response to new social concerns.
25 Our SEC rulemaking request ties to CalPERS' long-term

1 goals. We seek to strengthen understanding and the
2 ability to manage investment returns by managing risks and
3 opportunities and also reducing the risk from
4 unanticipated events. We think that increases in
5 discrimination negatively impact investment returns. So
6 lowering discrimination will reduce the probability of
7 events that cause catastrophic damage to an economy by
8 negatively impacting markets and investments.

9 So those are my comments. We respectfully
10 suggest that CalPERS as part of your next strategic plan,
11 not shy away from issues that are focused on race. We
12 think that these factors will significantly have the
13 potential to significantly impact investment returns, as
14 you look at the next five-year period.

15 So thank you very much. I really appreciate your
16 time.

17 CHAIRPERSON TAYLOR: Thank you.

18 Next, Mr. Fox.

19 STAKEHOLDER RELATIONS CHIEF FOX: Madam Chair,
20 next we have Sheila Thorne.

21 MS. THORNE: My name is Sheila Thorne. I'm a
22 retired member of the California Faculty Association and a
23 CalPERS beneficiary. It remains to be seen if any real
24 change comes from the new directors of Exxon, but
25 meanwhile, nothing has come of the net zero by 2050

1 promises from the big energy companies. Exxon, Shell,
2 Chevron, Total, and all the rest present no realistic
3 plans to decrease extraction and reduction annually to
4 reach their stated goals in a managed decline.

5 Instead, they rely on unproven and often still
6 undeveloped carbon capture technologies, which they think
7 at the last minute will suddenly emerge and clean up the
8 world. Worse, even though the International Energy Agency
9 now advocates no new expansion, the fossil fuel industry
10 continues business as usual with plans to increase
11 exploration and production. For example, Exxon plans for
12 nine billion barrels of oil equivalent from Guyana
13 Stabroek Block alone and to ramp up production in the
14 Permian Basin to make up for COVID slowdown according to a
15 report by Urgewald.

16 Shell plans to increase liquefied natural gas
17 volumes to deliver more than seven million tons per annum
18 of new capacity by 2050, according to a June 2021 report
19 by Corporate Accountability.

20 And according to Carbon Brief, Shell's global
21 strategy vision Sky 1.5 plans for continued use of oil,
22 gas, and coal until the end of the century.

23 Duke Energy also promised net zero by 2050, but
24 plans to keep coal online as late as 2048 according to a
25 2020 report by the Sierra Club.

1 In other words, net zero promises are the
2 industry's preferred method of greenwashing and delaying
3 real action. This will mean stranded assets as was
4 questioned a few minutes ago.

5 This planet will not survive without real action
6 starting now, not in 2050 or even 2040. So engagement to
7 demand concrete, intermediate goals of reduction leading
8 to 50 percent reduction by 2030. And engagement should
9 include zero tolerance for expansion, meaning that
10 companies that continue to expand should be divested.

11 Thank you.

12 CHAIRPERSON TAYLOR: Thank you, Ms. Thorne.

13 Next, Mr. Fox.

14 STAKEHOLDER RELATIONS CHIEF FOX: Madam Chair, we
15 have Steven Elias.

16 MR. ELIAS: Yes. Good morning. Can everybody
17 hear -- can everybody hear me?

18 Okay. Well, I'm going to go ahead and talk
19 assuming that you will.

20 My name is Steve Elias. I live in Grass Valley,
21 California. I've lived in California for the last 50
22 years. I have only one item that I want to focus on. And
23 that has to do with what the IPCC, the IP -- IPCC is the
24 UN Intergovernmental Panel on Climate Change. Very, very
25 well respected climate scientists from around the world.

1 What they had to tell us just two years ago about how it
2 would be a huge -- a huge mistake to focus on the 2050 net
3 zero target.

4 This was explained in great detail. But the key
5 takeaway is that we need to make significant greenhouse
6 gas reductions in the neighborhood of 50 percent by the
7 year 2030 or we have no chance -- virtually no chance of
8 getting to net zero by 2050.

9 Again, this is crucial information, because we
10 know at the present time that if the temperature in the
11 atmosphere increases by two degrees centigrade over
12 pre-industrial levels, it will be catastrophic for the
13 plants and animals on earth including humans.

14 And, in fact, we have already created one degree
15 of warming above that pre-industrial level. And there is
16 another one half degree rise that will be -- that is
17 inevitable no matter what actions we take now, because
18 there is a 10 year lag time owing to how big the earth
19 actually is.

20 Also, we know that given the amount of greenhouse
21 gases currently being produced, we are on a clear path to
22 two degrees of warming by 2030, unless we begin make
23 dramatic cutbacks now, and that 2030 should be the year we
24 focus on, not 2050.

25 And finally, notice that I have not used the word

1 "divestment" and we've just heard how we now have placed
2 some new reform-minded people onto the board of a major
3 fossil fuel company, and how this proves engagement is
4 working. But with all -- with all due respect, we really
5 do not have time, given the situation we're in, for the
6 kind of boardroom advocacy and negotiations that will
7 inevitably take place.

8 I believe we -- I believe that divestment is
9 absolutely necessary. Finally, let me just close with
10 quoting the Pope, okay. So the Pope said God always
11 forgives, people sometimes forgive, but nature never
12 forgives.

13 Thank you.

14 CHAIRPERSON TAYLOR: Thank you.

15 Mr. Fox, the next person.

16 STAKEHOLDER RELATIONS CHIEF FOX: The next caller
17 is Dana Stokes.

18 MS. STOKES: I'm addressing my comments to the
19 full Board. I am a CalPERS retiree as is my husband. And
20 like the previous commenter, I am really, really scared
21 out of my mind by the fact that CalPERS is aligning its
22 goals with a 2050 timeline.

23 Just three weeks ago NPR published a piece saying
24 that according to the world meteorological organization,
25 global temperatures were about 1.2 degrees Celsius hotter

1 than the late 1800s. That was last year. That was during
2 the pandemic when everything was scaled back in terms of
3 human activity that produces GHG emissions. So I -- we
4 just don't have time. We don't have time for CalPERS to
5 be using a date goal that is, you know, 34 to 39 years out
6 into the future.

7 I just -- I don't see -- I mean, I commend you
8 all on your partnership with many other organizations and
9 that you're being -- you know, holding a very significant
10 place at the table to drive forward response from the --
11 you know, public investors, and all investor's
12 perspective, but none of it's fast enough. So I would
13 hope that you would reconsider and, yes, do as the
14 previous commenter stated, set 2030 as your goal for a 1.5
15 degree Celsius, which is -- it's going to take -- it's
16 going to take more than shareholder engagement.

17 And what does New York state know that you don't
18 know? How is it that they decided to not risk stranded
19 assets by passing a divestment legislative bill.

20 Thank you.

21 CHAIRPERSON TAYLOR: Thank you.

22 Mr. Fox.

23 STAKEHOLDER RELATIONS CHIEF FOX: Madam Chair,
24 next we have Sandy Emerson.

25 MS. EMERSON: Hello. It's Sandy Emerson. I'm

1 the Board President of Fossil Free California.

2 The recent victory at Exxon's annual general
3 meeting where small hedge fund Engine number 1 forced
4 Exxon to seat three new climate savvy directors showed
5 both the power and the limits of engagement. This proxy
6 fight costs \$31 million, and was supported by CalSTRS,
7 CalPERS, and the New York State Common Retirement Fund.
8 And it was also supported by key voting recommendations
9 from BlackRock, Vanguard, and State Street.

10 We congratulate CalPERS for jumping in and
11 working hard behind the scenes. It's always good to see
12 that even an arrogant power elite like Exxon can be
13 defeated on its own turf.

14 But what does this really mean?

15 A minority of directors at this huge company
16 might start asking hard questions on climate, but these
17 directors didn't join to put the company out of business.
18 The jury is out on whether their presence can change
19 Exxon's corporate culture and alter its determination to
20 keep adding to its fossil fuel reserves. With engagement,
21 you are asking fossil fuel companies whose share value
22 depends on accumulating new reserves to stop business as
23 usual and begin to manage their own decline.

24 Science tells us that we must decrease CO2
25 emissions by 50 percent by 2030. Net zero by 2050 pledges

1 aren't worth much without near-term science-based targets.

2 By pursuing engagement alone without the
3 consequence of divestment, CalPERS is showing great
4 loyalty to Exxon. As of mid-2020, CalPERS had more than
5 \$426 million invested in Exxon for which it had paid \$553
6 million. CalPERS also has about \$235 million of corporate
7 bonds in Exxon, \$150 million of which don't even mature
8 until 2050.

9 CalPERS is betting that Exxon and the other oil
10 giants will survive and should survive until mid-century.
11 But the urgency of this moment dictates that large asset
12 owners and huge asset managers should use every tool at
13 their disposal to speed the transition away from fossil
14 fuels.

15 CalPERS has demonstrated the power of engagement,
16 but its portfolio still leads to a temperature rise of
17 more than three degrees Celsius. To meet it's own net
18 zero by 2050 goal, and the more important goal of a 50
19 percent reduction by 2030, CalPERS must reduce its
20 investments in fossil fuels.

21 Thank you.

22 CHAIRPERSON TAYLOR: Thank you.

23 Next, Mr. Fox.

24 STAKEHOLDER RELATIONS CHIEF FOX: Madam Chair,
25 next we have Dr. Richard Godfrey.

1 DR. GODFREY: Thank you very much. I want to
2 also thank Anne Simpson for a very articulate, bright, and
3 important presentation that I think received a lot of
4 congratulations and deserves it.

5 I need to differ in some ways. I'm commenting on
6 behalf of TriCity Ecology Center and my role as an
7 associate clinical professor with UCSF. While my
8 specialty is surgery, I also work in primary care
9 (inaudible).

10 Two devoted parents have a child of three years
11 age. The child develops a rapid onset fever that by
12 nighttime reaches 103 degrees Fahrenheit. What should
13 they do? They have two choices. They can give Tylenol
14 and wait until the following morning to see if the fever
15 declines or they can go to the ER.

16 Does the child have the flu or does it have
17 meningitis? What they also don't know is that if the
18 fever increases to 106 or 107, the child may have
19 irreversible brain damage.

20 How does this relate to CalPERS? You all know
21 that 416 parts per million, you know what that means, the
22 level of CO2 has continued to elevate despite the pandemic
23 and economic slowdown, and what the IPCC tells us is that
24 it needs to -- in order to stay below a 1.5 degree rise in
25 global temperature, the rise in parts per million of CO2

1 should be 350. So we've gone from 350 to 416 and still
2 climbing.

3 With your expertise in following statistics and
4 graphs, I speak to all the Board, the contradiction and
5 danger of this trend is pretty obvious. Supporting AB 386
6 is like hiding the thermometer in the bathroom drawer.
7 Continued investment in coal, which you continue to do is
8 like throwing a heating blanket on top of the child.

9 Let me conclude by saying that we deeply
10 appreciate your work and dedication and please begin
11 taking a leadership role as you're trying to do now in the
12 great moral crisis of our time. When you have to time
13 tonight, continue reviewing the timing and trends of CO2
14 and consider robust investment in the sustainable future.

15 As important as engagement and partnership are,
16 please divest rationally from fossil fuel companies,
17 including and especially Exxon.

18 Thank you.

19 CHAIRPERSON TAYLOR: Thank you.

20 Mr. Fox, next.

21 STAKEHOLDER RELATIONS CHIEF FOX: Madam Chair,
22 the final caller on Item 7c is Sara Theiss.

23 MS. THEISS: Hi. I'm Sara Theiss. I'm a CalPERS
24 retiree and Fossil Free California board member. I want
25 to share some good news in case you Board members aren't

1 aware of it. I know, and I've seen over the years, that
2 all of you are deeply concerned about the planet's future.
3 After all, that's what the sustainable investing program
4 is all about. And you also have the fiduciary duty to the
5 fund and retirees like myself.

6 So recently, BlackRock and Meketa surveyed
7 hundreds of investment funds worldwide at the request of
8 New York City's Controller on behalf of some of the city's
9 pension funds. The two companies separately concluded
10 that investment funds have experienced no negative
11 financial impacts from divesting from fossil fuels. In
12 fact, they found evidence of improved fund returns. In
13 other words, fossil free divestment aligns with your
14 fiduciary duty.

15 There's several core findings that are
16 noteworthy, including divestment actions by hundreds of
17 funds worldwide have passed the prudence test required of
18 fiduciaries. Fossil fuel stocks have underperformed for
19 at least the last five years, while forward-looking
20 analysis shows significant exposure to regulatory,
21 technological, and market risks.

22 Also, there is no one model of how to divest.
23 And finally, the global trend in the investment world is
24 towards more public pension divestment from fossil fuels,
25 and the size of individual funds that are currently

1 divesting is increasing.

2 So as I understand CalPERS Divestment Policy,
3 whether divestment or engagement is a better strategy for
4 mitigating the unfolding climate disaster is a moot point,
5 given the clear financial advantage that fossil fuel
6 divestment has for the portfolio's returns, according to
7 BlackRock and Meketa. As I understand CalPERS Divestment
8 Policy and your fiduciary duty, returns take priority over
9 social goals.

10 And the last thing is just this is a wonderful
11 series of reports these two companies did. They have a
12 wide and practical applicability as a roadmap. They cover
13 questions of fiduciary obligation costs, post-divestment
14 performance assessment, and investment in renewable energy
15 and a lot more.

16 There's also an extensive treatment of how other
17 funds of varying sizes and missions have arrived at the
18 decision to divest, and they discuss the policies that
19 these funds adopted, the timing, and any other steps
20 needed for implementation. So I hope that you find this
21 information as exciting and informative as I did, and hope
22 that you will take advantage -- both you and the staff
23 will take advantage of this development.

24 Thanks so much.

25 CHAIRPERSON TAYLOR: Thank you.

1 And, Mr. Fox, is that it?

2 STAKEHOLDER RELATIONS CHIEF FOX: That concludes
3 public comment on this item, Madam Chair.

4 CHAIRPERSON TAYLOR: Okay. Thank you. Just a
5 quick question for Meketa, if they're still online, if we
6 could have a copy of that report, that would be pretty
7 awesome, if we could get ahold of that for our next --
8 before our next Investment Committee meeting.

9 And then I think we are now moving on -- before
10 we move into closed session, summary -- well, lunch, and
11 then closed session, summary of Committee direction.

12 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: All
13 right. Thank you, Madam Chair. And yes, let's move on to
14 Committee direction. Before we do really quickly, I also
15 just want to express my thanks to Anne in the item, and
16 then also -- you know, I'm not objective. As you may
17 recall, Anne and I being here to present that five year
18 plan at repeated meetings during 2016. But I definitely
19 think a whole lot of progress was made here. Certainly
20 more to be done, but a great deal accomplished and so just
21 really good work by Anne and her team, Simiso and his
22 team, and really everyone across the asset classes. So
23 thanks to all for the really great work on the body of --
24 on this body of work.

25 That does take us to Committee direct, and so,

1 I've asked Arnie to actually track Committee direction.
2 So, Arnie, can I turn it to you to walk us through what
3 you have as a Committee direction?

4 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

5 Yeah. Got it, Dan. Thank you.

6 Ms. Taylor, the only item I had was the tracking
7 error agenda item, the Total Fund Policy. And we will
8 bring that back in September as an action item. And we
9 will add some information on how other plans are doing it
10 and stuff, which we had in November. We'll elaborate on
11 with Wilshire's help.

12 CHAIRPERSON TAYLOR: Okay. Thank you.

13 And then -- I appreciate that. Is there any
14 other public comment, Mr. Fox?

15 STAKEHOLDER RELATIONS CHIEF FOX: Yes, Madam
16 Chair. We have one caller Alyssa Giachino from the
17 Private Equity Stakeholder Project.

18 CHAIRPERSON TAYLOR: Okay. Thank you. Go ahead.

19 MS. GIACHINO: Good afternoon, Chair and members
20 of the Board. My name is Alyssa Giachino with the Private
21 Equity Stakeholder Project. I'm here today to follow up
22 on my comment from April regarding eviction filings by
23 your private equity partner Ares Management and their
24 single family rental company Front Yard Residential.

25 CalPERS is a major investor with Ares Management

1 and has committed more than 1.3 billion to Ares funds in
2 the last year. Ares last year partnered with Pretium
3 Partners to acquire Front Yard Residential, a single
4 family rental landlord with nearly 15,000 homes around the
5 U.S.

6 The company has filed more than 500 eviction
7 actions since the beginning of 2021, including more than
8 390 eviction filings in majority black DeKalb and Clayton
9 counties in Georgia. Front Yard Havenbrook has filed to
10 evict residents at a much higher rate in majority black
11 counties than in majority white counties.

12 Since January 1st of this year, the firm has
13 filed to evict 16 percent of its residents in Clayton
14 County and 18 percent of its resident the DeKalb County.
15 We have reached out to Ares several times for an
16 explanation of why Front Yard Residential has fired --
17 filed to evict residents in majority black counties at
18 much higher rates. Ares has not responded.

19 Instead, Ares Front Yard Residential has filed
20 more than 110 additional eviction actions DeKalb and
21 Clayton counties, since we shared our findings with Ares
22 in mid-April. We have seen a number of filings in the
23 past month, where Front Yard Residential has sought to
24 circumvent the CDC eviction moratorium by not renewing
25 leases of residents that have filed CDC hardship

1 declarations, and then seeking those -- to evict those
2 residents based on that nonrenewal.

3 For example, NPR earlier this month highlighted
4 the story of Katrina Chism, a single mom, who lost her
5 customer service job during the Coronavirus pandemic and
6 fell behind on her rent. Chism applied for federal rental
7 assistance money and was approved but she said Front Yard
8 Residential told her that her lease was about to end and
9 she had to leave or get evicted.

10 Quote, "Once you get that eviction, no one is
11 going to want you to rent from them", Chism told NPR. "I
12 don't want to be in a homeless situation", unquote. And
13 in addition to NPR the company's eviction filings, and
14 particularly its disproportionate filings against black
15 renters have drawn media coverage by Bloomberg, CBS News,
16 and Reuters, and are clearly a substantial headline risk.

17 Ares Management's failure to address or even
18 respond to questions about its company eviction actions
19 represent a significant management failure on Ares part,
20 one that CalPERS should be considered about, given its
21 recent invest of 1.3 billion.

22 Given the scope of CalPERS relationship with
23 Ares, we believe CalPERS should ask that -- ask Ares
24 Management why its home rental firm is filing to evict
25 renters in majority black counties at five to six times

1 the rate of tenants in majority white counties? In
2 addition, please ask Ares to meet with renters to discuss
3 what steps it will take to address concerns that Front
4 Yard Havenbrook tenants have raised.

5 Thank you.

6 CHAIRPERSON TAYLOR: Thank you very much.

7 Can I ask that we have someone from our PE follow
8 up on that?

9 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Yes,
10 Madam Chair, we will definitely make sure. I know we've
11 spent quite a bit of time talking with Ares about this
12 very topic, but we'll make sure that we -- that we follow
13 up. And if we'd like to discuss it in closed session, we
14 certainly can also.

15 CHAIRPERSON TAYLOR: Oops. Sure. Thank you.
16 That would be a good idea. I appreciate it.

17 So that is the end of our open session in
18 Investment Committee. And sorry for the late lunch, guys,
19 but how about we keep it to half an hour and do -- come
20 back at 2:35-ish.

21 I'll say 2:35.

22 (Off record: 2:00 p.m.)

23 (Thereupon the meeting recessed
24 into closed session.)

25 (Thereupon the meeting reconvened

1 open session.)

2 (On record: 4:00 p.m.)

3 CHAIRPERSON TAYLOR: It's four o'clock. Thank
4 you all for coming back into open session from our recess.

5 We've adjourned closed session for items 1
6 through 6 from the closed session agenda. Let's see.

7 We're back into open session. This adjourns our
8 Investment Committee meeting. The next Investment
9 Committee meeting will be held in September. And I have
10 to ask this question. I'm sorry. Do I need to report out
11 on anything we did?

12 Is Matt there?

13 Matt's not here.

14 No.

15 Matt?

16 Okay. I'm going to assume that's a no, so we're
17 adjourning the open session of the Investment Committee
18 and we will reconvene in September.

19 Thank you all. Have a nice rest of your day.

20 COMMITTEE MEMBER JONES: Okay. See you all
21 tomorrow.

22 (Laughter.)

23 CHAIRPERSON TAYLOR: All right.

24 VICE CHAIRPERSON MILLER: Take care.

25 (Thereupon California Public Employees'

Retirement System, Investment Committee
meeting open session adjourned at 4:01 p.m.)

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