

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

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

MONDAY, JUNE 15, 2020
9:25 A.M.

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

COMMITTEE MEMBERS:

Ms. Theresa Taylor, Chairperson

Mr. David Miller, Vice Chairperson

Mr. Rob Feckner

Mr. Henry Jones

Ms. Lisa Middleton

Ms. Stacie Olivares

Mr. Jason Perez

Mr. Ramon Rubalcava

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

BOARD MEMBERS:

Mr. Margaret Brown

Ms. Fiona Ma, represented by Mr. Frank Ruffino

Ms. Eraina Ortega

Ms. Shawnda Westly

STAFF:

Ms. Marcie Frost, Chief Executive Officer

Mr. Matt Jacobs, General Counsel

Dr. Yu (Ben) Meng, Chief Investment Officer

Mr. Eric Baggesen, Managing Investment Director

Mr. Dan Bienvenue, Deputy Chief Investment Officer

Ms. Kit Crocker, Investment Director

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

STAFF:

Mr. Kelly Fox, Chief, Stakeholder Relations

Ms. Pam Hopper, Committee Secretary

Ms. Divya Mankikar, Investment Manager

Ms. Dianne Sandoval, Investment Manager

Ms. Anne Simpson, Interim Managing Investment Director

ALSO PRESENT:

Mr. Al Darby, Retired Public Employees Association

Ms. Kristen Ellis

Mr. Steve Foresti, Wilshire Associates Consulting

Dr. Richard Godfrey

Mr. Steve Hartt, Meketa Investment Group

Mr. J.J. Jelincic

Mr. Ferris Kavar

Mr. Ken Lee

Mr. Glen Maloney

Mr. Steve McCourt, Meketa Investment Group

Ms. Lynne Nittler

Mr. Leonard Skylar

Mr. David Soares, Retired Public Employees Association

Ms. Sarah Theiss, Fossil Free California

Mr. Doug Thompson

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

ALSO PRESENT:

Ms. Sheila Thorn, Fossil Free California

Mr. Tom Toth, Wilshire Associates Consulting

Ms. Vanessa Warheit, Fossil Free California

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P R O C E E D I N G S

CHAIRPERSON TAYLOR: I call the meeting to order
and have a roll call, Pam.

COMMITTEE SECRETARY HOPPER: Theresa Taylor?

CHAIRPERSON TAYLOR: Here.

COMMITTEE SECRETARY HOPPER: Rob Feckner?

COMMITTEE MEMBER FECKNER: Good morning,

COMMITTEE SECRETARY HOPPER: Henry Jones?

Henry Jones?

COMMITTEE MEMBER JONES: Here.

COMMITTEE SECRETARY HOPPER: Thank you.

Lisa Middleton?

COMMITTEE MEMBER MIDDLETON: Present.

COMMITTEE SECRETARY HOPPER: David Miller?

VICE CHAIRPERSON MILLER: I'm here.

COMMITTEE SECRETARY HOPPER: Stacie Olivares?

COMMITTEE MEMBER OLIVARES: Here.

COMMITTEE SECRETARY HOPPER: Jason Perez?

COMMITTEE MEMBER PEREZ: Here.

COMMITTEE SECRETARY HOPPER: Ramon Rubalcava?

Betty Yee?

COMMITTEE MEMBER YEE: Here.

COMMITTEE SECRETARY HOPPER: And we are waiting
for Ramon Rubalcava.

CHAIRPERSON TAYLOR: Okay. This is going to --

1 it's going to be interesting. Give it a few more minutes,
2 a minute or two.

3 CHIEF EXECUTIVE OFFICER FROST: Yeah. Theresa,
4 otherwise, we can announce when Ramon joins that meeting,
5 so it gets into the record.

6 CHAIRPERSON TAYLOR: That works as well. So as I
7 un -- understand it, we are moving right into closed
8 session then, so that's the issue. So if you want -- if
9 we do that, and he's not here, then Pam can you let him
10 know that just forget getting into open and go into
11 closed?

12 CHIEF EXECUTIVE OFFICER FROST: Theresa, yes, we
13 can do that.

14 CHAIRPERSON TAYLOR: Okay.

15 CHIEF EXECUTIVE OFFICER FROST: I'll send him an
16 email right now.

17 CHAIRPERSON TAYLOR: Okay. So we're going to
18 recess into closed session for items -- closed session for
19 items one through seven from the closed session agenda.
20 Could you guys all exit this open session meeting, all the
21 Board members, and connect to the closed session meeting.
22 And anybody in the public that's watching on livestream,
23 the open session Investment Committee meeting will
24 reconvene following the closed session.

25 All right. So everybody go ahead and leave the

1 meeting and go into closed session.

2 Thank you.

3 (Off record: 9:28 a.m.)

4 (Thereupon the meeting recessed
5 into closed session.)

6 (Thereupon the meeting reconvened
7 open session.)

8 (On record: 3:00 p.m.)

9 CHAIRPERSON TAYLOR: Okay. Everybody, Investment
10 Committee open session is now called to order. If I could
11 have Pam call the roll, please.

12 COMMITTEE SECRETARY HOPPER: Theresa Taylor?

13 CHAIRPERSON TAYLOR: Here.

14 COMMITTEE SECRETARY HOPPER: Rob Feckner?

15 COMMITTEE MEMBER FECKNER: Good afternoon.

16 COMMITTEE SECRETARY HOPPER: Henry Jones?

17 COMMITTEE MEMBER JONES: Here.

18 COMMITTEE SECRETARY HOPPER: Lisa Middleton?

19 COMMITTEE MEMBER MIDDLETON: Present.

20 COMMITTEE SECRETARY HOPPER: David Miller?

21 VICE CHAIRPERSON MILLER: Present.

22 COMMITTEE SECRETARY HOPPER: Stacie Olivares?

23 COMMITTEE MEMBER OLIVARES: Here.

24 COMMITTEE SECRETARY HOPPER: Jason Perez?

25 COMMITTEE MEMBER PEREZ: Here.

1 COMMITTEE SECRETARY HOPPER: Ramon Rubalcava?

2 COMMITTEE MEMBER RUBALCAVA: Here.

3 COMMITTEE SECRETARY HOPPER: Betty Yee?

4 ACTING COMMITTEE MEMBER PAQUIN: Pam, this is
5 Lynn Paquin sitting in for Betty Yee for a couple minutes.

6 COMMITTEE SECRETARY HOPPER: Thank you so much.

7 ACTING COMMITTEE MEMBER PAQUIN: Thank you.

8 CHAIRPERSON TAYLOR: Okay. Thank you, everybody.

9 We're going to move on to item number 3, the
10 approval of the June 15th, 2020 Investment Committee timed
11 agenda. What's the pleasure of the Committee?

12 COMMITTEE MEMBER JONES: Move approval.

13 VICE CHAIRPERSON MILLER: So moved

14 CHAIRPERSON TAYLOR: So moved by Mr. Jones,
15 seconded by Mr. Miller, I believe.

16 Thank you. I need to have a roll call vote.
17 Sorry about that.

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: Lisa Middleton?

23 COMMITTEE MEMBER MIDDLETON: Aye.

24 COMMITTEE SECRETARY HOPPER: David Miller?

25 VICE CHAIRPERSON MILLER: Aye.

1 COMMITTEE SECRETARY HOPPER: Stacie Olivares?

2 COMMITTEE MEMBER OLIVARES: Aye.

3 COMMITTEE SECRETARY HOPPER: Jason Perez?

4 COMMITTEE MEMBER PEREZ: Aye.

5 COMMITTEE SECRETARY HOPPER: Ramon Rubalcava?

6 COMMITTEE MEMBER RUBALCAVA: Aye.

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

9 ACTING COMMITTEE MEMBER PAQUIN: Aye.

10 CHAIRPERSON TAYLOR: Okay. Motion carries.

11 Thank you very much, Pam.

12 Executive Report. Chief Investment Officer, Mr.
13 Meng.

14 CHIEF INVESTMENT OFFICER MENG: Thank you, Madam
15 Chair and good afternoon Committee members.

16 I would like to take this opportunity to give you
17 an update on how we are managing the portfolio through the
18 COVID-19 crisis with three areas to focus update, the
19 opportune -- the opportunistic strategies, market
20 transactional liquidity, and our own balance sheet
21 liquidity management.

22 It is a difficult time for all of us on many
23 fronts and it's easy to lose focus of our mission amidst a
24 heightened level of uncertainty. Therefore, after an
25 update on how we are managing the portfolio through the

1 current crisis, I will conclude my opening remarks with a
2 discussion on our long-term focus, which is to generate
3 the actual rate of return of seven percent on a nearly
4 \$400 billion portfolio in the long run.

5 As you may recall that our Opportunistic Strategy
6 Program was created mainly to capture two types of
7 investment opportunities. First, opportunities that arise
8 from structural changes in the market that are not
9 material enough yet to be incorporated into our strategic
10 benchmark. An example of such a strategy is direct
11 lending in private credits.

12 The second set of opportunities that arise from
13 market dislocation during a crisis such as COVID-19.
14 These types -- these types of opportunities tend to be the
15 result of extreme market dislocations and they're
16 transitional in nature. This means that it is important
17 to be ready to act quickly for us to capture such
18 opportunities.

19 On this note, we're pleased to report to you that
20 we are benefiting from the work we did in 2019 and early
21 this year. Because of our early preparations in building
22 out our internal due diligence and portfolio construction
23 capabilities, enhancing our liquidity management, as well
24 as establishing relationships with capable external
25 partners, we have been able to proactively capture

1 investment opportunities during the COVID-19 crisis.

2 Thus far, most of these opportunities are in
3 area of -- area of private credit, especially in liquidity
4 and rescue financing. And such strategies are currently
5 implemented as part of the Opportunistic Strategies
6 Program.

7 As an example of the importance of being
8 prepared, in 2019, we started negotiating contingent
9 mandates with two distressed credit managers. Distressed
10 credit strategies can generate attractive risk re --
11 risk-adjusted returns but markets are in distress. But
12 such crises do not come often. As an all-weather
13 strategy, however, distressed credit strategies become
14 less attractive. Therefore, we structure the mandates
15 with a trigger such that these mandates will be activated
16 only when a certain set of market distress conditions are
17 met, as they were in March this year.

18 The mandates were executed in early 2020 and the
19 triggers were met almost immediately thereafter. Because
20 of this pre-negotiated trigger mandate, plus other
21 investment channels we developed and continue to develop,
22 we have been able to act quickly in taking advantage of
23 market dislocation, that is to be offensive when the right
24 opportunities presented themselves.

25 A good example of the defensive part of our plan

1 is the implementation of long treasury bonds and
2 factor-weighted equities over the last few years.
3 Combined, these two segments of the portfolio provided
4 drawdown mitigation benefits to the tune of \$11 billion
5 from February 20 to March 23rd this year, when the equity
6 market experienced a major drawdown.

7 Now, I would like to give you an update on market
8 transactional liquidity and our own balance sheet
9 liquidity management.

10 Market functioning in equities and treasuries
11 improved dramatically during May relative to the
12 significant stress experienced at the onset of the crisis.
13 The Federal Reserve continues to inject a significant
14 amounts of liquidity into the marketplace. Market depth
15 has stabilized within normal historical range, while cost
16 to trade remains somewhat elevated at 1.5 to 2 times the
17 pre-COVID market conditions.

18 Our balance sheet liquidity continues to remain
19 strong. For example, as of June 10th, for all the stress
20 scenarios we analyzed, and our Tier 1, Tier 2, and Tier 3
21 liquidity coverage ratio for seven-day, 30-day, and 90-day
22 horizons are all above 1.6 times, which means that even
23 under the most conservative assumptions, our ability --
24 our available liquidity sources are more than 60 percent
25 higher than potential uses. Again, we are benefiting

1 greatly from our 2019 work in developing a comprehensive
2 liquidity management framework.

3 Please note that our liquidity situation is
4 dynamic and the liquidity coverage ratio analysis is based
5 on some assumptions and our best estimates. We're
6 continuing to monitor and manage our liquidity profile
7 diligently.

8 The creation of a liquidity management framework
9 strikes to balance a variety of trade-offs among potential
10 sources for and the uses of balance-sheet liquidity by
11 pairing the negotiability of uses with the reliability of
12 sources. The framework is structured to ensure our most
13 important use of liquidity, such as the pay members'
14 benefit payments, are covered by highly reliable sources
15 of liquidity, which are cash and expected receivables.

16 The liquidity on demand nature of our framework
17 is a critical feature, in that it balances between having
18 too liquidity, which can be costly, and holding too little,
19 which can be deadly. So that's -- we will only use
20 liquidity and start paying for liquidity when we need it.
21 Since 2019, we have made substantial improvements to our
22 liquidity management framework and developed numerous
23 pathways we can use to secure cash on short notice.

24 Just in 2019, we negotiated and executed several
25 master repo agreements total -- total return swap

1 agreements and a sponsored repo agreement. These steps
2 taken last year provided us with more than \$10 billion
3 additional capacity of liquidity on demand. We put this
4 liquidity management framework to test during COVID-19 and
5 we are benefiting greatly from it.

6 We remain confident that we can continue to
7 manage our liquidity profile well to ensure that we can
8 continue to pay our members' benefit and meet other
9 financial obligations.

10 We are humble enough to know that we cannot
11 forecast when and how the crisis would unfold and we
12 cannot time the market, but what we can do is to develop
13 plans for different future market scenarios.

14 Planning for the future is analogous to having a
15 fire exit sign, it does not tell us when the fire will
16 break out, but instead it tells us what to do once we see
17 smoke. An enhanced liquidity management framework,
18 additional pathways to liquidity on demand, a centralize
19 governance structure, our pro -- proactive outreach to the
20 GP community, and implementation of investment strategies
21 such as factor-weighted equity and the long-duration risk
22 segments, as well as the distressed credit trigger
23 mandates, these are just some of the fire exits that we
24 built into our portfolio prior to COVID-19.

25 As we are managing through this COVID-19 crisis,

1 we continue to benefit from having developed the plan
2 early on. When I am asked how we are managing the
3 portfolio during this crisis, the answer is rather simple:
4 We had a plan and we are sticking to it.

5 Recent market turmoil has thrown a fresh
6 spotlight on the challenges that public pension funds face
7 in making good on their mission to deliver retirement
8 security to public employees. The discussion on how to
9 meet obligations represents an important debate for
10 policymakers who worry about burdening State and local
11 governments and future generations to secure the benefits
12 that pensioners depend on.

13 Given the global macro-economic uncertainty and
14 our -- and our mission to provide pension and health
15 benefits to nearly two million public employees in
16 California, it is important for us to focus on our shared
17 challenge, which is to achieve a seven percent long-term
18 return on close to \$400 billion, and our mission, which is
19 to serve those who serve California. That requires both
20 innovation and a commitment to the long-term plan.

21 Even prior to the pandemic, we knew that in order
22 to achieve our goal of a risk-adjusted return of seven
23 percent, we would need to address the market's triple
24 threat of low interest rates, high asset valuation, and
25 low economic growth.

1 So in late 2019, we mapped out an investment
2 strategy to deliver sustainable results over the long
3 term. Our solution is based on better assets and more
4 assets and well capitalized on our structural advantages,
5 such as our long-term investment horizon and access to
6 private asset classes. CalPERS must diversify and
7 increase exposure to private assets, such as private
8 equity and private credit. We refer to these as better
9 assets, because they have the potential for higher returns
10 and lower expected volatility when compared to public
11 traded assets.

12 More assets refers to our plan to thoughtfully
13 utilize a moderate level of leverage as a tool to increase
14 the base of the assets generating returns in the
15 portfolio. The use of a moderate level of leverage allows
16 CalPERS to take advantage of the low borrowing cost in
17 today's low interest rate environment and using those
18 funds to acquire assets with potentially higher returns,
19 while at the same time we can maintain proper control and
20 effectively manage risk associated with the use of
21 leverage.

22 The topic of leverage has been reached
23 periodically for several years now. As part of the asset
24 liability management in 2017, a workshop session was held
25 on July 17, 2017 titled, *Use of Leverage in Strategic*

1 *Asset Allocation.* This session, and other discussions and
2 actions since that time, have sought to build a framework
3 by which CalPERS may use a moderate amount of leverage to
4 help offset diminished return expectations.

5 We recognize that this approach carries risk.
6 For example, leverage can exacerbate some short-term
7 volatility. However, prudent use of leverage can reduce
8 risk over time by allowing us to keep more exposure in
9 diversifying assets such as U.S. treasury bonds while
10 pursuing higher returns in other parts of the portfolio.

11 Importantly, the two components of our toward a
12 seven percent solution, better assets and more assets,
13 by -- are independent of each other. That is risk over
14 results leverage. We'll attempt to increase our exposure
15 to private assets as better assets in order to increase
16 the expected return of the portfolio. And separately, we
17 may use leverage to gain exposure to more assets, so that
18 we can maintain diversification while increasing exposure
19 to higher returning assets, be they public or private.

20 It is also important to note that leverage is no
21 longer applied within a specific strategy, asset class,
22 fund, or deal. Instead, leverage is applied and managed
23 holistically from the total fund perspective. This
24 centralized governance structure and the work done over
25 the past year on building out our liquidity management

1 framework serve to provide confidence that the risks
2 associated with leverage shall be appropriately managed
3 especially given the moderate amount of leverage
4 contemplated in the near future.

5 We plan to deploy leverage gradually, prudently,
6 and as market opportunities warrant. We have carefully
7 factored in these risks and have implemented a
8 comprehensive, forward-looking risk mitigation plan. Over
9 the last several months, we have meticulously plan --
10 planned a major shift towards this strategy, improving
11 liquidity management, installing proper controls and a
12 centralized governance framework.

13 While there is no panacea in the current market
14 environment, we believe our strategy of better assets and
15 more assets will increase the probability of achieving our
16 goal of a risk-adjusted return of seven percent within the
17 next ten years, but this will require sticking to the
18 long-term path regardless of short-term outcomes.

19 We understand the important role we play in
20 society. While we know this is just the beginning, we are
21 positioning ourself to deliver sustainable returns to our
22 two million members for decades to come. So with that, I
23 will pause for any questions you may have.

24 CHAIRPERSON TAYLOR: I don't see any questions.
25 So let's move on to our -- thank you very much, Ben. That

1 was -- I appreciate your report. Thank you.

2 My iPad logged out, so give me just a second.

3 This is what happens when you don't have hard copies.

4 Let's move on our action consent items. What's
5 the pleasure of the Committee? Number 5, action consent
6 items.

7 COMMITTEE MEMBER JONES: Move -- Move approval.

8 CHAIRPERSON TAYLOR: All right. It's moved by
9 Mr. Jones.

10 VICE CHAIRPERSON MILLER: Second.

11 CHAIRPERSON TAYLOR: Second by Mr. Miler. I need
12 to have a roll call vote, Pam.

13 COMMITTEE SECRETARY HOPPER: Rob Feckner?

14 COMMITTEE MEMBER FECKNER: Aye.

15 COMMITTEE SECRETARY HOPPER: Henry Jones?

16 COMMITTEE MEMBER JONES: Aye.

17 COMMITTEE SECRETARY HOPPER: Lisa Middleton?

18 COMMITTEE MEMBER MIDDLETON: Aye.

19 COMMITTEE SECRETARY HOPPER: David Miller?

20 VICE CHAIRPERSON MILLER: Aye.

21 COMMITTEE SECRETARY HOPPER: Stacie Olivares?

22 COMMITTEE MEMBER OLIVARES: Aye.

23 COMMITTEE SECRETARY HOPPER: Jason Perez?

24 COMMITTEE MEMBER PEREZ: Aye.

25 COMMITTEE SECRETARY HOPPER: Ramon Rubalcava?

1 COMMITTEE MEMBER RUBALCAVA: Aye.

2 COMMITTEE SECRETARY HOPPER: Lynn Paquin for
3 Betty Yee?

4 ACTING COMMITTEE MEMBER PAQUIN: Aye.

5 CHAIRPERSON TAYLOR: Great. Thank you. Motion
6 carries.

7 We move on to our -- number 6, our information
8 consent items. I have had a request to pull 6C for
9 comments. So let's pull that and the comment is from Ms.
10 Brown.

11 Ms. Brown, go ahead.

12 BOARD MEMBER BROWN: Thank you, Madam Chair. I
13 want to draw, Mr. Meng, your attention to Item 6C,
14 attachment 1, page one of ten. It should be easy to find.
15 And that's the quarterly update on performance and risk.
16 And I'm looking at the lower half of the table on private
17 equity. Basically, it appears that at every interval
18 showing, the year-to-date, one year, three, five, and ten
19 year, we are underperforming the benchmark. And it
20 actually appears to be the only asset class that has
21 consistently underperformed the benchmark. Yet, we
22 continue to pour billions of dollars into these
23 investments. Can you tell me why we continue to throw
24 money at private equity when year-in and year-out we
25 underperform. My concern is we're taking on greater risk

1 without the reward.

2 CHIEF INVESTMENT OFFICER MENG: Thank you, Ms.
3 Brown. I think that's a question better addressed by Rob
4 Patterson. So, Dan Bienvenue is Rob on the line?

5 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Yeah,
6 Rob is available. Why don't I take a first -- first stab
7 at that and then we can take it from there and pull Rob
8 in.

9 Let me switch back to it.

10 So, Ms. Brown, there's a -- there's a number of
11 things that are -- that are in that historical
12 performance. Now, first of all, I would comment that
13 despite the underperformance, which you see across with
14 the red, if you look at it relative to sort of a public
15 market alternative, which would be the public equity cap
16 weighted, in basically every time period the private
17 equity portfolio beats the public equity portfolio.

18 So private equity is very difficult to benchmark.
19 But one benchmark that people consider is for us certainly
20 the opportunity cost. Relative to the cap weighted,
21 private equity beats public equity in every historical
22 period. And the same thing, you'll see this in the ALM
23 conversation that we have on Item 8A I believe it is,
24 where our capital market assumptions for private equity
25 are higher than that for public equity.

1 As far as the performance, especially over the
2 long -- like the ten-year number, one of the challenges
3 there is we've changed the benchmark a few times. At one
4 point it was relative to an entirely domestic benchmark.
5 Then it moved to being public equity with a certain
6 geographic split, plus 300 basis points -- cap weighted
7 plus 300 basis points.

8 And then in our most recent ALM process, we moved
9 to the current benchmark, which is just public equity,
10 plus 150 lag three months. So one of the challenges again
11 in private equity is benchmarking and has been an evolving
12 benchmark. So I would say that some of the numbers across
13 the are not relative to our current benchmark. And, in
14 fact, the numbers are different relative to our current
15 benchmark.

16 But again, I think the most important thing is
17 when we talk about needing to invest more in private
18 equity, one of the big things is the alternative is
19 investing in public equity. And we feel the private
20 markets are a better alternative. So I'm happy to take
21 further questions about that.

22 BOARD MEMBER BROWN: Yeah. Thank you. I know we
23 did -- I recall when we did adjust the benchmark, but we
24 made it simpler, lower. We adjusted the benchmark lower,
25 so we actually would be able to stumble over it. And it

1 doesn't appear we've been able to do that. But the real
2 question for me is the risk-adjusted returns. So, yes, we
3 are getting more than we would say with public equities,
4 but we're taking on much greater risk. And so we really
5 need to do something to fix why we aren't meeting the
6 benchmark. And I'm hoping that we're going to come up
7 with some either substantial ways to hit the benchmark
8 park or to not throw as much money at private equity. I'm
9 just wondering what we're doing to try to bring our
10 numbers up to the benchmark?

11 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: So if
12 the question is about risk-adjusted, if you -- if you look
13 at the realized risk of private equity, it actually is
14 lower than public equity also. So the realized
15 risk-adjusted return is actually even better for private
16 equity. Now -- relative to public equity. Now again, we
17 think that the -- you know, and Ben has talked about this,
18 the realized performance has the lagging and the smoothing
19 in it. So we actually think that's an artificially low
20 risk. But again, our forecasted risk and volatility --
21 I'm sorry, risk and expected returns for private equity is
22 such that we actually believe the forward looking
23 risk-adjusted returns are better again for private equity
24 than public equity.

25 BOARD MEMBER BROWN: All right. Thank you. I

1 don't have anymore questions on that.

2 CHAIRPERSON TAYLOR: All right. Thank you, Ms.
3 Brown. Thank you, Mr. Bienvenue.

4 I'm going to move on now to 7, information agenda
5 item, policy and delegation. I think --

6 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Thank
7 you. And, Jared, if I could please get Kit Crocker moved
8 to attendee from presenter please, as Kit will be leading
9 this item.

10 CONFERENCE MODERATOR: All right. Kit, you
11 should be able to turn on your audio and video.

12 INVESTMENT DIRECTOR CROCKER: How is that? Am I
13 there?

14 CONFERENCE MODERATOR: Sounds great. You're all
15 good.

16 INVESTMENT DIRECTOR CROCKER: Okay. Thank you.
17 Yes. Thank you. Good afternoon. Kit Crocker, CalPERS
18 Investment Office.

19 Agenda Item 7A is the first reading of staff's
20 proposed updates to the Total Fund Investment Policy. And
21 the proposed changes fall into two categories, new
22 language in a Appendix 5 to codify within policy the PERF
23 Benchmark Methodology. And then secondarily, changes
24 relating to the Opportunistic Program intended to reflect
25 recent organizational changes, provide for program

1 oversight for the -- by the general pension consultant,
2 and update program constraints to expand potential size in
3 the program, while at the same time facilitating more
4 meaningful oversight by this Committee by updating the
5 constraints.

6 Staff has worked closely with Wilshire on both
7 the benchmark methodology provisions and the new policy
8 parameter for the Opportunistic Program.

9 This is an information item. We're seeking the
10 Committee's input at this time. And with that, I'll pause
11 for questions and also invite our consultants, Wilshire
12 and Meketa to comment.

13 CHAIRPERSON TAYLOR: Let's go to -- I don't have
14 any questions, so --

15 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Do
16 you want me to get Wilshire and -- I'm sorry Ms. Taylor.
17 I'm sorry. In order to get Wilshire and Meketa to be able
18 to comment, can we please bring Steve Hartt from Meketa
19 forward as an attendee and then also bring Tom Toth from
20 Wilshire as an attendee, Jared.

21 CONFERENCE MODERATOR: Okay. Tom, you should be
22 able to share your audio and video.

23 MR. TOTH: Yep. Can everybody hear me?
24 Great.

25 CONFERENCE MODERATOR: And, sorry, who was the

1 other person?

2 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: The
3 other one is Steve Hartt with two Ts, Hartt from Meketa,
4 please.

5 CONFERENCE MODERATOR: Okay. I brought him in,
6 but I don't see him online any more.

7 MR. HARTT: Yes, I'm -- I think I'm online.

8 CONFERENCE MODERATOR: There you go.

9 MR. HARTT: Can you hear me?

10 CONFERENCE MODERATOR: Yes.

11 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:
12 Thanks, Jared. All right. Tom, over to you.

13 MR. TOTH: Great. Thank you. I just wanted to
14 make a couple of comments related to the opinion letter.
15 As Kit rightfully laid out, we had a lot of back and forth
16 on the edits and the suggested revisions. Two broad
17 categories, the benchmark methodology changes, the opinion
18 letter states we feel it's consistent with what has been
19 previously discussed with the Investment Committee. So
20 we're comfortable with that. And Wilshire will continue
21 to act in a benchmark oversight role as the Investment
22 Committee's eyes and ears. And we'll elevate concerns, or
23 questions, or issues as we deem necessary to ensure that
24 strong oversight.

25 And then the second broad category really comes

1 within the Opportunistic Strategies portion of the Total
2 Fund Policy. And I think the biggest change that is being
3 suggested there is the increase in the maximum allocation
4 from three to five percent. As we've seen, credit spreads
5 across credit markets rise materially and the likelihood
6 for a lot of idiosyncratic opportunity to drive returns.
7 We think that relaxing that maximum does make sense.

8 Now, importantly, in the revision, there's two
9 things that I think the Investment Committee could --
10 should keep in mind. And first and foremost is that these
11 are active positions within the portfolio and therefore
12 are governed by the active risk limits that the Investment
13 Committee approves. So the one and a half percent active
14 risk target is not changing, will remain intact, and is
15 really a primary governance mechanism for the active
16 positions within the broader portfolio. So that remains
17 as a governor for the risk position in the portfolio.

18 And then secondly, we think the additions to the
19 Opportunistic Strategy guidelines help to provide stronger
20 oversight. They're replacing what were pretty broad
21 high-level constraints with more specific strategy and
22 sector constraints, as well as the delegation authority
23 limits. So we think taken altogether, those increase the
24 level of oversight that the Investment Committee will be
25 providing for the Opportunistic Strategies portfolio.

1 With that, I'll stop and see if there are any
2 questions or comments.

3 CHAIRPERSON TAYLOR: There are. And I hate to do
4 this guys, but apparently we had public comment on 6C. So
5 before we go to these questions, I would like to go to
6 Kelly Fox with the public comment on 6C.

7 STAKEHOLDER RELATIONS CHIEF FOX: Thank you,
8 Madam Chair. We have eight people in the queue to speak
9 on Item 6C. I'll begin with the first person and put them
10 into the talk mode. They will speak after they hear the
11 beep.

12 CHAIRPERSON TAYLOR: Thank you.

13 MS. NITTLER: Hello. I'm Lynne Nittler, a
14 retired California teacher from -- with my health care in
15 CalPERS. I keep close track of the earth's climate, the
16 atmospheric readings at Hawaii's Mauna Loa Observatory are
17 released every May. The results are deeply troubling as
18 CO2 levels are escalating rapidly. Ten years ago, the May
19 reading was 393 parts per million. This year, a few weeks
20 ago, it jumped to 417. So we added 23.5 parts per million
21 of CO2 to our atmosphere in just one decade.

22 Unless, we change our ways dramatically by 2030,
23 we could reach 440 parts per million of CO2 by 2040.
24 Scientists have warned us that concentrations of 450 risk
25 triggering extreme weather events and temperature rises as

1 high a two degrees centigrade. Beyond that, the affects
2 of global heating are likely to become in the scientist's
3 words, "catastrophic and irreversible".

4 It's not the future we want and we could be there
5 before 2050. That should be breathtaking. We don't have
6 time for you to divest CalPERS slowly or to see if holding
7 on to fossil fuel investments might pay off eventually.
8 We simply can't afford to put anymore CO2 into the
9 atmosphere, if we care about a livable planet. Divest now
10 from all fossil fuel investments to do your part to avoid
11 plunging us into climate chaos.

12 The good news is there's no performance tradeoff
13 in ridding CalPERS from fossil fuel investments.
14 Morningstar has examined 745 sustainable funds, compared
15 them against 4,150 traditional funds. They matched or
16 beat returns in all categories. Even during this
17 pandemic, CalPERS can lead the way to creating a better
18 future for our beleaguered planet by selling fossil fuel
19 investments, investing green, and come out ahead for
20 pensioners.

21 Here's a Morningstar report quote, "Average
22 returns and success rates for sustainable funds suggest
23 that there is no performance trade out -- tradeoff
24 associated with sustainable funds. In fact, a majority of
25 sustainable funds outperform their traditional peers over

1 multiple time horizons", unquote.

2 I am truly puzzled why CalPERS continues to
3 invest in fossil fuels that have cost the fund billions
4 compared to the fossil free index. In the last 12 months,
5 CalPERS has lost a billion dollars just in tar sands
6 investments along. I hope you will take the urgency of
7 cutting back on CO2 emissions to heart.

8 Thank you.

9 CHAIRPERSON TAYLOR: Kelly.

10 MS. NITTLER: I'm done.

11 CHAIRPERSON TAYLOR: Kelly Fox.

12 STAKEHOLDER RELATIONS CHIEF FOX: Okay. Thank
13 you.

14 Yes, Madam Chair.

15 CHAIRPERSON TAYLOR: Kelly --

16 STAKEHOLDER RELATIONS CHIEF FOX: Yes.

17 CHAIRPERSON TAYLOR: I don't know what these
18 questions are, but that would go to 8C not 6C. So if
19 these are all the same question, then they need to do it
20 on 8C at the end of the presentation on climate. And then
21 in addition, was that under three minutes?

22 STAKEHOLDER RELATIONS CHIEF FOX: Yes, I have
23 stopwatch here.

24 CHAIRPERSON TAYLOR: Okay. So I don't how we
25 find that out, but my feeling is if they're talking about

1 climate, we should be doing that on 8C.

2 CHAIRPERSON TAYLOR: Okay. Madam Chair, your
3 ruling is to have them speak at 8C. And we'll make that
4 change. Each of these callers had indicated they were
5 speaking on 6C on -- they're all primarily from Fossil
6 Free California. So if you want to move them to Item 8C,
7 you can make that announcement and that's how we'll do it.

8 CHAIRPERSON TAYLOR: So I would like it if you
9 would call back for 8C and get back in the queue for that,
10 so that we can continue our Investment Committee open
11 session until we get to that. I'd really appreciate it.

12 Thank you.

13 STAKEHOLDER RELATIONS CHIEF FOX: Okay. They
14 will stay in the queue. You have one caller for Item 7A
15 when you're completed there.

16 CHAIRPERSON TAYLOR: Okay. So we are not there
17 yet, but let's go on with Mr. -- or with Dan, I had some
18 questions. So let me go back and see if --

19 All right. Okay. So I have something from Mr.
20 Jones and Mr. Feckner.

21 Mr. Jones.

22 COMMITTEE MEMBER JONES: Yeah. Thank you Madam
23 Chair. Yeah, my question is for Mr. Toth. Tom, you make
24 reference to benchmarks and you talk to the maintaining
25 the one and a half percent -- one and a half percent

1 tracking error as a governance measure. So as a -- from a
2 governance point of view as a Board member, what am I
3 looking at with the tracking area above -- that's moving
4 higher than 1.5 or going below 1.5? What am I -- what's
5 going to inform me as to whether or not this asset is
6 performing as it should?

7 MR. TOTH: So tracking -- thank you, Mr. Jones.
8 Tracking error is meant to capture essentially the
9 differences in the investment portfolio relative to its
10 benchmark. And to the extent that the portfolio takes on
11 active risk, you want to strive to be -- to be compensated
12 for that difference between the benchmark and the actual
13 portfolio. So the higher that number, essentially the
14 more the investment portfolio can differ relative to its
15 benchmark. And it's those -- it's technically the
16 standard deviation of active returns of the portfolio.

17 So managing that in a risk conscious way I think
18 is appropriate and you receive regular reporting in terms
19 of the level of active risk both in the portfolio as well
20 as in the underlying constituents within the fund.

21 COMMITTEE MEMBER JONES: Okay. Thank you.

22 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Mr.
23 Jones, if it helps on the item that Ms. Brown's question
24 was on regarding the quarterly update on performance and
25 risk over the last that we talked about, the very next

1 page actually shows your forecasted tracking error and you
2 get that quarterly to this Committee. And that actually
3 it also gets posted on the Insight Tool monthly for your
4 purview and you continue to see it more frequently now
5 that we have it out there for -- on the Insight Tool.

6 COMMITTEE MEMBER JONES: Yeah, right. Yeah, Dan.
7 I see it all the time, but I wanted to know what the
8 impact is for, you know, when it's moving one way or
9 another, you know. And I think Tom explained that. Yeah,
10 okay. Okay. Thanks.

11 CHAIRPERSON TAYLOR: Thank you, Mr. Jones.
12 Mr. Feckner.

13 COMMITTEE MEMBER FECKNER: Thank you, Madam
14 Chair. I was wondering before I made my comment, if Mr.
15 Hartt had anything to add?

16 MR. HARTT: I don't have on this particular point
17 here. I do have on the total policy revisions. I did
18 have a comment that I wanted to provide when that's
19 appropriate.

20 COMMITTEE MEMBER FECKNER: All right. Thank you.
21 I guess my comment is if there's not a lot of angst or
22 heartburn, is there a reason why we have to hold this as a
23 first reading and wait and do it as a second reading? I'm
24 not hearing a lot of contention about this. Could we just
25 move this forward as an action item, Madam Chair?

1 CHAIRPERSON TAYLOR: It is fine with me, if
2 that's the pleasure of the Committee. I do want to hear
3 from Meketa, Mr. Hartt. So before we take the vote,
4 let's -- I don't have anymore comments, so let's hear from
5 Meketa and then we can hear the pleasure of the Committee.

6 MR. HARTT: Well, good afternoon Committee. I
7 did want to make a further comment with regards to the
8 Total Fund Policy. Committee members may recall that
9 prior versions of the suggested changes incorporated a
10 number of other items beyond just the Opportunistic
11 Program. And a few of those items included the Private
12 Equity Program.

13 And one item in there I wanted to bring to the
14 Committee's attention for further thought. In our
15 monitoring of the Private Equity Program and the
16 interactions with staff, one of the areas that is in the
17 Private Equity Program has to do with the targets and the
18 ranges that they have for the different classifications of
19 assets they have within the private equity portfolio,
20 specifically buyouts, credit growth, opportunistic, and
21 venture.

22 So the item I wanted to bring to the Committee's
23 attention was that the buyout segment currently has a
24 target of 65 and a range of 55 to 75 percent of NAV. And
25 that has been creeping -- the actual allocation has been

1 creeping over time and is currently at 70 percent. And I
2 think that with the continued deployment of capital in
3 private equity is going to be -- continued to be focused
4 on the buyouts area, and that as they continue to think
5 about co-investments, those are going to be also primarily
6 in the buyouts area.

7 And that what I would suggest is that the
8 Committee consider a change to the target ranges for the
9 different classifications -- strategy classifications in
10 the private equity to increase that in the buyouts area
11 and decrease it in credit. The decrease in credit also
12 can make sense because of the growth in the Opportunistic
13 Program that has -- has some exposure to parts of private
14 credit that could have initially otherwise been considered
15 part of the private equity. So that's no longer going to
16 be done there. It's going to be done in the private -- in
17 the Opportunistic Program.

18 So specifically would suggest, if it makes sense,
19 to change the range from buyouts from the current
20 allocation of 55 to 75 with a target of 65, and move that
21 to a target of 70 and a range of 60 to 80 percent. And
22 there would be a corresponding decrease in the credit
23 program, which currently has a target of 10 and a range of
24 0 to 15, and to change that to be a target of 5 with a
25 rang of 0 to 10.

1 Happy to answer any questions.

2 CHAIRPERSON TAYLOR: Mr. Hartt, does that
3 change -- and I appreciate that. Does that change
4 anything in the delegated -- to the Total Fund Policy --

5 MR. HARTT: It wouldn't be --

6 CHAIRPERSON TAYLOR: -- and not ask for it?

7 MR. HARTT: It wouldn't be a change actually in
8 the Total Fund Policy, because I believe the Private
9 Equity Program continues to remain as a separate policy.
10 But given the changed taking place now in the total
11 program -- total program policy and not knowing when we're
12 going to revisit this, and knowing this is a relatively
13 near-term item that had been considered in the previous
14 iterations of the total policy change that included the
15 Private Equity Program, that what we would look to do is
16 to change the Private Equity Program strategy limits and
17 targets.

18 So to your first question about the delegated
19 authority, I would not make any changes to delegated
20 authority and we're not looking for any changes there.

21 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Ms.
22 Taylor, to Mr. Feckner's comment previously, we can
23 certainly make that a -- should the Board like to make
24 this an action item, we can certainly make that part of
25 the action item, which would be to update the Private

1 Equity Policy according to what Mr. Hartt just said.

2 CHAIRPERSON TAYLOR: Okay. That's what I was --
3 what's why I was diligently writing it down, so we can get
4 the motion correct.

5 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Got
6 it.

7 (Laughter.)

8 CHAIRPERSON TAYLOR: So, okay, I appreciate it.

9 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: And
10 staff will certainly be comfortable with those -- with
11 those ranges.

12 CHAIRPERSON TAYLOR: Okay. And I'm going to
13 have, when we're ready to do the motion - I have public
14 comment - I'm going to have Mr. Hartt go over it again, so
15 I get it written correctly, so it's included.

16 MR. HARTT: Sure.

17 CHAIRPERSON TAYLOR: But right now I do have --
18 Mr. Fox, I think I have one comment on this, right, 7A?

19 Kelly Fox?

20 Is he still there, anybody?

21 I know I had a 7A comment.

22 Karen?

23 Hmm.

24 MS. PERKINS: You called me Theresa?

25 CHAIRPERSON TAYLOR: Do I have a commenter --

1 public comment on 7?

2 MS. PERKINS: Yes. Mr. Fox.

3 MR. JELINCIC: Hello.

4 CHAIRPERSON TAYLOR: Hi. There we are. Sorry.

5 MR. JELINCIC: Hi. This is J.J. Jelincic, a
6 member.

7 MR. JELINCIC: I had asked at the shareholders'
8 meeting why and what impact there was from the change in
9 the benchmark in Appendix 5. I was told that it would be
10 addressed on the call and I didn't hear anything. But
11 this does not change or increase by even \$1 the amount
12 that's available to pay benefits. It narrows the
13 difference between the theoretical return on the Board
14 asset allocation and the portfolio performance, but it
15 does reduce the reported benchmark and how much
16 underperformance gets reported in the press, and it does
17 make it easier for the management staff to meet their
18 bonuses.

19 But I really have heard no explanation as to why
20 we want to make this change and I would ask that the
21 Committee actually seriously consider it. And I assume
22 that my whole comments made it through starting with, "I
23 had asked at the shareholder meeting"?

24 CHAIRPERSON TAYLOR: Yes. We heard everything,
25 J.J. Thank you.

1 MR. JELINCIC: Thank you.

2 CHAIRPERSON TAYLOR: Were there any additional
3 comments, Mr. Fox or Ms. Perkins on 7A?

4 STAKEHOLDER RELATIONS CHIEF FOX: That
5 concludes -- that concludes the public comments for Item
6 7A.

7 CHAIRPERSON TAYLOR: All right. Thank you so
8 much. Let me make sure there aren't any additional
9 comments. Boy, this gets crowded.

10 Okay. So I would like to know the pleasure of
11 the Committee. It was brought up that since there didn't
12 seem to be a lot of questions on the Total Fund Investment
13 Policy that we go ahead and move this to an action item.
14 If that's the case, I need to know the pleasure of the
15 Committee.

16 COMMITTEE MEMBER FECKNER: I so move.

17 CHAIRPERSON TAYLOR: It's been moved by Mr.
18 Feckner.

19 I need a second.

20 COMMITTEE MEMBER OLIVARES: I second.

21 COMMITTEE MEMBER JONES: Second.

22 CHAIRPERSON TAYLOR: Okay. I didn't hear who --
23 either of those seconds were.

24 COMMITTEE MEMBER JONES: Second.

25 CHAIRPERSON TAYLOR: I'm not hearing who it is.

1 Who is it?

2 COMMITTEE MEMBER JONES: Second. Henry.

3 CHAIRPERSON TAYLOR: Oh, Henry. Gosh. Your
4 screen is freezing, so it looks you're not moving.

5 COMMITTEE MEMBER JONES: Oh. Okay. But I'm
6 talking.

7 (Laughter.)

8 CHAIRPERSON TAYLOR: Okay. So I have a motion by
9 Mr. Feckner, a second by Mr. Jones. Is that -- Mr.
10 Feckner, is that inclusive of changing the PE strategy
11 limits to a target of 70 --

12 COMMITTEE MEMBER FECKNER: It is.

13 CHAIRPERSON TAYLOR: Okay -- with the 60 to 80
14 range and the -- what was the other one, Mr. Hartt?

15 MR. HARTT: It was a corresponding decrease in
16 the credit-related --

17 COMMITTEE MEMBER FECKNER: Zero to ten.

18 MR. HARTT: -- from a target of 10 to a target of
19 5, and decrease the range from 0 to 15 currently to 0 to
20 10.

21 CHAIRPERSON TAYLOR: Okay. That is a in the
22 minutes.

23 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Ms.
24 Taylor, just to --

25 CHAIRPERSON TAYLOR: Go ahead.

1 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:

2 Sorry. Just to make sure that the -- that the
3 minutes have this accurately -- captured accurately, it
4 would be taking the buyout target from 65 to 70, taking
5 the range from 55 to 75 to being a new range of 60 to 80,
6 and it would have the corresponding decrease in credit
7 going from the target of 10 to a target of 5, moving it
8 from 0 to 15 as a range to a range of 0 to 10 percent of
9 the overall Private Equity Program.

10 CHAIRPERSON TAYLOR: Got it.

11 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:

12 Steve, do I have that right?

13 MR. HARTT: That's correct, yes, in Appendix 3 of
14 the Private Equity Program, Table A, Strategy Allocation
15 Targets and Ranges.

16 CHAIRPERSON TAYLOR: Okay. I'm going to assume
17 that made it into the minutes. The motion has been made.
18 The second has been made. I need a roll call for the
19 vote.

20 COMMITTEE SECRETARY HOPPER: Rob Feckner?

21 COMMITTEE MEMBER FECKNER: Aye.

22 COMMITTEE SECRETARY HOPPER: Henry Jones?

23 COMMITTEE MEMBER JONES: Aye.

24 COMMITTEE SECRETARY HOPPER: Lisa Middleton?

25 COMMITTEE MEMBER MIDDLETON: Aye.

1 COMMITTEE SECRETARY HOPPER: David Miller?

2 VICE CHAIRPERSON MILLER: Aye.

3 COMMITTEE SECRETARY HOPPER: Stacie Olivares?

4 COMMITTEE MEMBER OLIVARES: Aye.

5 COMMITTEE SECRETARY HOPPER: Jason Perez?

6 COMMITTEE MEMBER PEREZ: No.

7 COMMITTEE SECRETARY HOPPER: Ramon Rubalcava?

8 COMMITTEE MEMBER RUBALCAVA: Aye.

9 COMMITTEE SECRETARY HOPPER: Betty Yee?

10 COMMITTEE MEMBER YEE: Aye.

11 CHAIRPERSON TAYLOR: Okay.

12 COMMITTEE SECRETARY HOPPER: Seven ayes, Madam

13 Chair and one no by Jason Perez.

14 CHAIRPERSON TAYLOR: Okay. The motion carries.

15 So we are now going to move on to 8 -- Agenda

16 Item 8, information agenda item, mid -- ALM mid-cycle

17 review. A -- 8a.

18 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:

19 Thanks, Ms. Taylor. Jared, if you could --

20 CHIEF INVESTMENT OFFICER MENG: Thank you, Madam

21 Chair --

22 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:

23 Sorry, Ben.

24 (Thereupon an overhead presentation was

25 Presented as follows.)

1 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Let
2 me do this and I'll let you introduce this item. If we
3 can move Kit Crocker, Tom Toth, and Steve Hartt from
4 panelist to attendee. And then if we could please move
5 Eric Baggesen, Christine Reese, and Dianne Sandoval,
6 members of the management team, from attendee to panelist.
7 And then if we could also please move our consultants,
8 Steve Foresti and Steve McCourt, again from attendee to
9 panelist, please. So those are Eric Baggesen, Christine
10 Reese, Dianne Sandoval, Steve Foresti, and Steve McCourt.

11 CONFERENCE MODERATOR: Okay. So I've moved
12 everyone in, but I don't have any options for Christine
13 Reese. I cannot make her a panelist for some reason.

14 CHAIRPERSON TAYLOR: Can you move along without
15 her right now or...

16 CONFERENCE MODERATOR: Christine, can you -- are
17 you dialed in?

18 INVESTMENT DIRECTOR REESE: Yes. Can you hear
19 me?

20 CONFERENCE MODERATOR: Okay. There we go. So
21 Christine is dialed in and not on video.

22 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:
23 Thanks, Jared. I'll hand it over to you to
24 introduce, Ben.

25 CHIEF INVESTMENT OFFICER MENG: Yes. Thank you,

1 Dan. Madam Chairman and members of the Committee, so this
2 item -- if you may recall our last asset liability
3 management workshop was 2017 to '18 fiscal year. And then
4 the next one will be 2021 to 2022. So this is a mid-cycle
5 review, where we give you update on economic -- economic
6 conditions, asset class valuation, and more importantly,
7 an update on the capital market assumptions. So without
8 further ado, I will turn it over to my team.

9 (Thereupon an overhead presentation was
10 presented as follows.)

11 MANAGING INVESTMENT DIRECTOR BAGGESEN: Okay. I
12 think this is me, Eric Baggesen, Managing Investment
13 Director for Trust Level Portfolio Management.

14 Basically, our speaker this afternoon is going to
15 be Dianne Sandoval. She's going to cover just two slides
16 of the attached material, basically dealing with the
17 capital market assumptions and then the next steps in the
18 ALM process. But the whole COVID crisis has really kind
19 of thrown market valuation statistics and characteristics
20 basically into a tailspin.

21 I think without any further ado, I'll just turn
22 it over to Dianne. And we'll be happy to answer any
23 questions, if you have them.

24 INVESTMENT MANAGER SANDOVAL: Thank you, Eric.
25 Dianne Sandoval, Trust Level Portfolio Management. If I

1 can ask that everyone please turn to page six, I will walk
2 through that page.

3 --o0o--

4 INVESTMENT MANAGER SANDOVAL: Thank you.

5 So what I have here is charted each asset segment
6 for the Public Employees' Retirement Fund along the X
7 axis, and the asset segments forward-looking returns on
8 the Y axis. In the orange boxes, I show the range of
9 forward-looking return estimates throughout this segment,
10 excuse me. In 2017 -- the median 2017 asset segment
11 estimate is captured by the white triangle. And the black
12 bracket illustrates a range of forward-looking return
13 estimates per asset segment as of the end of March 2020
14 and the black circle illustrate the median estimate for
15 the same period.

16 So one of the key takeaways I want to point out
17 in this chart, there's a heightened uncertainty being
18 expressed through this survey of investors today versus in
19 2017. This is illustrated by the dramatic increase in the
20 range of expected returns across every asset class. While
21 I would normally expect the range of outcomes to be the
22 biggest in private asset classes, where the ability to add
23 alpha is the highest, what we see in these forecasts is
24 that the range of outcomes has substantially increased for
25 every asset segment, including in fixed income to levels

1 even higher than what I would expect in private asset
2 classes.

3 So let me give you an example. In 2017, the
4 difference between the minimum forecasted returns and the
5 maximum forecasted returns from private equity was about
6 230 basis points. The real assets the difference was 285
7 basis points. Every other asset class had a lower
8 dispersion of estimates. Today, that difference for
9 private equity has widened to over 700 basis points.

10 More importantly, the difference for global
11 equity widened by over 500 basis points and even U.S.
12 treasuries has widened over 400 basis points. This tells
13 us that experienced investors with reasonable approaches
14 for forecasting asset segment returns can reach very
15 different conclusions about the next ten years. And these
16 differences have to do largely with the shape and timing
17 of the economic recovery from COVID and the effectiveness
18 of monetary and fiscal policies to bring stability to the
19 market.

20 The second observation I would like to make about
21 this chart is that in the almost nine years that I've been
22 doing this work for CalPERS, this is the first time that I
23 have seen negative return estimates from reasonable
24 investors in U.S. treasuries -- well, quite frankly, in
25 any assets segment.

1 Now, the reasons we have negative yield forecasts
2 are varied. Some believe that there is a lower floor of
3 zero or close to zero for U.S. treasuries, thus interest
4 rates, or treasuries, offer asymmetric return profile with
5 a limited ability for upside and higher degree of
6 downside, if rates go up, others are looking at all-time
7 low current yields, and still others argue that in more
8 modern portfolio theory, investors should be willing to
9 pay for protection for defensive assets or future returns
10 will be negative, because this asset class has provided
11 pretty spectacular expensive property. So just, you know,
12 fiscal year-to-date treasuries are up over 19 percent.

13 Of course, you can see in the range of forecasted
14 return estimates that there's a lot of debate on this
15 topic. And this is why we're also committing to undertake
16 an important effort in collaboration with our research and
17 strategy group and the Global Fixed Income team, under the
18 leadership of Kevin Winter and Arnie Phillips, to
19 understand if U.S. treasuries will continue to stay at the
20 current role of diversifying our equity risk or if there
21 are more cost-effective alternative diversifiers to equity
22 risk that we should consider using in our next ALM
23 process.

24 Before I move on, I really want to reiterate that
25 the capital market assumptions are critical input into the

1 portfolio construction process, which is rigorously
2 assessed through our four-year asset ability management
3 review. In 2017, the Board went through this ALM process
4 resulting in a total fund portfolio with an expected
5 return of 6.11 percent over the next ten years, and seven
6 percent over the long term.

7 If I look at the last bar to the far right, I
8 illustrate that if we simply took the median averages from
9 the March 31st 2020 survey as the expected return for each
10 asset segment, and weighted them by our current strategic
11 asset allocation rates, it would leave us close to the
12 bottom of the previous range established in 2017.

13 This reiterates the difficulty that the
14 Investment Office faces in meeting the seven percent
15 challenge with a conventional portfolio and the need for
16 more assets an better assets. I also want to reiterate
17 that we are specifically not attempting to adopt new
18 capital market assumptions at this point, simply because
19 the degree of market uncertainty does not provide us with
20 sufficient confidence to recommend a change at this point.

21 Now, page seven shows very similar results for
22 the affiliate funds in terms of a wide dispersion of
23 outcomes and lower global fixed income estimates.

24 So if I can now turn to page nine where we've
25 outline the next steps.

1 --o0o--

2 INVESTMENT MANAGER SANDOVAL: Thank you.

3 Since we will be reviewing our ALM timeline and
4 CMA process with you at the Board -- at the July Board
5 offsite, I won't spend too much time on this, other than
6 to reiterate that the key areas of focus for us in the
7 next ALM review in terms of research will be, one, for the
8 PERF focused on the role of U.S. treasuries and the
9 potential alternatives, as well as revisiting the asset
10 segment constraints; and two, for the affiliate funds, we
11 will be focused on reviewing the role of U.S. treasuries
12 and potential alternatives; we will be revisiting the goal
13 of inflation assets and potential alternatives; and, we
14 will be assessing the cost-benefit analysis of
15 factor-weighted and high-yield segments.

16 With that, I will conclude my remarks and turn
17 this back over to you, Eric.

18 Thank you.

19 MANAGING INVESTMENT DIRECTOR BAGGESEN: Okay. I
20 don't know at this point in time, whether or not the folks
21 from Wilshire Associates, Steve Foresti or Steve McCourt,
22 would care to make any comments from Meketa.

23 MR. FORESTI: This is Steve Foresti from
24 Wilshire. I just want to make sure that -- that my
25 microphone is live.

1 CHAIRPERSON TAYLOR: It is.

2 MR. FORESTI: Great. Good afternoon, everyone.

3 You know, the only comments I'd make would just to be
4 underscore a couple of the points that Diane made. Number
5 one, I think even when we go through the ALM cycle, we're
6 always, you know, I think very diligent about making sure
7 that we point to the asset class assumptions, you know,
8 what we know, what uncertainty lies out there, and our
9 just quite frankly just humble about the risk around the
10 assumptions.

11 I think the point I'd like to underscore that
12 Dianne made today is just in light of the current economic
13 environment, the additional uncertainty that the COVID and
14 partial economic shutdown add to that the outlook is even
15 less certain and that doesn't necessarily mean that
16 there's more risk of undershoot or overshoot to the
17 assumptions, but rather there's more risk to missing on
18 either side of that. So I think, you know, all else
19 equal, that would be just another reason to have a bit of
20 caution around the precision that even the median
21 estimates that have been collected suggest.

22 The final point I'll make, as we at Wilshire look
23 at our assumptions versus how they -- how they stood
24 during the ALM cycle in 2017-18, there's been a lot of
25 moves in the markets and the economy. Rates have, you

1 know, at first kind of came out that environment and moved
2 up and have recently come down quite extensively.

3 But as we look at the expected return through
4 Wilshire's assumption for CalPERS portfolio over the next
5 ten years, we've just seen a very modest change, a
6 reduction of maybe 20 basis points from what we would have
7 expected the portfolio with the same allocation to look
8 like three years ago. So all that being said, I think as
9 you know staff has laid out, and as you review the
10 mid-cycle ALM, it looks very much to us like the portfolio
11 that's in place is appropriate, prudent, and the
12 conversations you've had around the objective of moving
13 towards or maintaining a seven percent long-term return
14 target, I think all of those conversations set you up very
15 well for the next full ALM cycle.

16 Happy to take any questions, but just want to
17 underscore those points.

18 CHAIRPERSON TAYLOR: Great. Did we want -- is
19 that Wilshire. Did we want Meketa?

20 MR. McCOURT: Yeah. I -- without repeating what
21 staff and Steve had mentioned already, the one thing I
22 would highlight for the Committee is the -- potentially
23 the most impactful dynamic from the pandemic and the
24 policy responses to it for forward-looking asset
25 allocation decisions is the dramatic reduction in interest

1 rates, which have the direct impact of reducing
2 forward-looking returns for fixed income instruments, but
3 also tend to also reduce the expected return for other
4 types of asset classes as well.

5 So it's obviously far too early to tell how --
6 how permanent or semi-permanent the reduction in interest
7 rates is. But as staff continues on its journey in asset
8 allocation, that would be the major -- one of the major
9 factors I'd pay close attention to.

10 CHAIRPERSON TAYLOR: Great. Thanks, Stephen.

11 Ms. Yee, you had a couple of questions.

12 You're muted.

13 COMMITTEE MEMBER YEE: Sorry. I'm -- Okay.

14 Thank you. Just one question. Dianne touched upon the
15 comparison of the ten-year rate and the long-term rate as
16 compared to 2017. And I was just curious about, you know,
17 given the Feds recent meeting last week about a prolonged
18 recovery and likely that -- unlikely that the Federal
19 fund's rate will increase, I was just looking at the
20 estimated inflation at this mid-year point compared to
21 2017. I couldn't tell. Could you comment about that?

22 MANAGING INVESTMENT DIRECTOR BAGGESEN: Dianne,
23 do you have that one?

24 CHAIRPERSON TAYLOR: Dianne.

25 I think she went away for a minute.

1 COMMITTEE MEMBER YEE: Okay.

2 INVESTMENT MANAGER SANDOVAL: I'm here. I'm
3 sorry. I was talking, but I think I was muted. Sorry
4 about that.

5 COMMITTEE MEMBER YEE: Okay.

6 INVESTMENT MANAGER SANDOVAL: Can you hear me
7 now?

8 COMMITTEE MEMBER YEE: Yes.

9 CHAIRPERSON TAYLOR: Yeah.

10 INVESTMENT MANAGER SANDOVAL: Oh, great. Okay.
11 Thank you. What I was saying was I just wanted to
12 reiterate the question. Is the question what are our
13 updated results for inflation --

14 COMMITTEE MEMBER YEE: Yeah.

15 INVESTMENT MANAGER SANDOVAL: -- in terms of the
16 survey. So this is actually interesting. The inflation
17 results have not really changed over the next ten years.
18 They're still at two percent. And that's actually very
19 much -- the median survey results for inflation was
20 literally spot on two percent. And I think the reason for
21 that is because if you think about over the short-term
22 what happened with the crisis, those effects have been
23 somewhat deflationary in the short term. And I think
24 there's still quite a lot of uncertainty as to how the
25 structural changes will pan out that will impact inflation

1 the most.

2 So, you know, what is going to happen with our
3 supply chain, and if we're going to need to build
4 redundancies into that or not. Obviously, certain areas
5 have really fallen in inflation, like oil, and energy, and
6 transport, and airlines, right, but then ensued that might
7 be a very different topic. So interestingly enough, we
8 have not seen a change -- much of a change in the forecast
9 on inflation.

10 COMMITTEE MEMBER YEE: Okay. Interesting. Thank
11 you.

12 INVESTMENT MANAGER SANDOVAL: You're welcome.

13 CHAIRPERSON TAYLOR: Is that it, Betty?

14 COMMITTEE MEMBER YEE: Yes.

15 CHAIRPERSON TAYLOR: Okay. So I also have a
16 question from Stacie Olivares. Ms. Olivares.

17 COMMITTEE MEMBER OLIVARES: Thank you, Madam
18 Chair. This question is for -- also for Dianne. You
19 know, it's a little unfortunate what's happening. And so
20 as I look at these charts, I'm not -- I'm not really
21 seeing a great picture in terms of what the future holds,
22 especially as we're looking at potentially negative
23 interest rates. We've seen that happen in Europe.

24 I know we're going to get a presentation on this
25 in July, but I'd like to just get a quick overview of what

1 some of the alternatives are for treasuries right now?

2 INVESTMENT MANAGER SANDOVAL: Yeah. You know,
3 and I'll let -- I'll let Eric speak to this as well. But,
4 I mean, really what we've been looking at so far has been
5 pretty defense -- you know, other ways of bringing
6 diversity into our portfolio like our factor-weighted
7 equities, which have I know lower drawdowns or even high
8 yields. We have slightly lower drawdowns and higher
9 recoveries or faster recoveries than treasuries. So I
10 wouldn't say they're necessarily exactly replacements for
11 treasuries.

12 COMMITTEE MEMBER OLIVARES: Right.

13 INVESTMENT MANAGER SANDOVAL: But they do bring
14 more diversification into the portfolio. And we have seen
15 that they were pretty effective during the recent crisis
16 in March.

17 COMMITTEE MEMBER OLIVARES: Thank you.

18 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah.
19 Maybe -- this is Eric. Maybe I could just add a slight
20 comment to that. And thanks, Dianne, because you have it
21 exactly right. Even at the low interest rates that
22 currently exist Ms. Olivares, we saw for example when the
23 market sold off over 500 basis points last week,
24 treasuries still, even from these low interest rates,
25 actually provided diversification against the equity

1 drawdown that was happening.

2 So we still think that there's some utility.
3 Albeit, that utility from all practical purposes has to be
4 diminished when you have interest rates that are sub-100
5 basis points, for example, on these.

6 COMMITTEE MEMBER OLIVARES: Um-hmm.

7 MANAGING INVESTMENT DIRECTOR BAGGESEN: But it is
8 not inconceivable that interest rates on treasuries could
9 go negative just as they have in so many European
10 sovereign issues.

11 COMMITTEE MEMBER OLIVARES: Yeah.

12 MANAGING INVESTMENT DIRECTOR BAGGESEN: So as
13 long as there is movement potential for the interest rate
14 to decline, there is still an element of diversification.
15 And at this point in time, the only other alternative that
16 we would have basically to try to deploy the capital that
17 is currently allocated to treasuries would be basically to
18 just put it right into equity risk, which would
19 potentially exacerbate any significant, you know, further
20 drawdowns that might be in the offing. So I don't think
21 for me personally, that's not a recommendation that I
22 would be willing to make at this point.

23 Of course, that could always be overridden by Ben
24 and Dan, and the perspective of the Investment Office.
25 But we do not see a point at this moment in time to

1 abandon whatever diversification we still do get from
2 treasuries.

3 CHIEF INVESTMENT OFFICER MENG: Okay. Eric, now
4 this is Ben. Sorry, Stacie. Go ahead.

5 COMMITTEE MEMBER OLIVARES: You're probably going
6 to answer this, but at what point would we consider
7 abandoning it? I think we're at 66 bps or somewhere
8 around there right now. At what point do we have to
9 reconsider?

10 CHIEF INVESTMENT OFFICER MENG: Yeah. So on that
11 point, since Eric invited me to come in. So let's get
12 back a little bit. So as you know that -- you know, we
13 are constantly in the discussion over conversations with
14 our global peers, you know, market researchers and leading
15 stock leaders in this space. And one of the topics that
16 you see really divergence of view is about the future of
17 U.S. Treasuries. Will the interest rate go up or go down
18 from here. It also kind of hinges on inflation, as Dan
19 pointed out as well. You know, there is a really large
20 dispersion in forecast of inflation and interest rate
21 going forward. So that's the big picture.

22 COMMITTEE MEMBER OLIVARES: Um-hmm.

23 CHIEF INVESTMENT OFFICER MENG: But if you think
24 about the roles they expect U.S. treasury to play in our
25 portfolio, there are three -- there are three roles we

1 expect treasuries to play in our portfolio. One is income
2 generating, the other one is being liquidity provider, and
3 then the last one is diversification to active drawdowns.

4 Let't think about the first one, income
5 generating, you're absolutely right. Given the low yield
6 environment, the income generating capability of
7 treasuries has diminished somewhat. And liquidity, given
8 that, you know, we talk about our enhanced balance sheet
9 liquidity management framework. Having treasury --

10 COMMITTEE MEMBER OLIVARES: Um-hmm.

11 CHIEF INVESTMENT OFFICER MENG: Holding treasury
12 as a source of liquidity becoming less critical. It's
13 still important in the consideration, but less important
14 now.

15 So now the key question really going forward, can
16 treasury continue to provide diversification benefits to
17 potential equity drawdowns. And as Dan just point out in
18 one of our next steps, is they continue to study what's
19 the role for treasury to play in our portfolio.

20 COMMITTEE MEMBER OLIVARES: Um-hmm.

21 CHIEF INVESTMENT OFFICER MENG: So as Eric said,
22 we're not there yet, but this definitely is a topic front
23 and center, you know, for the Investment Office. And
24 we'll continue to do our research and we'll come back to
25 the Committee before we formulate a view and we continue

1 working with your consultant on this topic as well.

2 COMMITTEE MEMBER OLIVARES: Thank you.

3 CHAIRPERSON TAYLOR: Okay. We also have public
4 comments. And if we could get the timer on my screen.
5 And, Kelly Fox, if you can get the person on. I think
6 it's J.J.

7 STAKEHOLDER RELATIONS CHIEF FOX: Thank you,
8 Madam Chair. And, yes, I do have the caller coming in.
9 Mr. J.J. Jelincic on Item 8A.

10 MR. JELINCIC: Can you hear me?

11 CHAIRPERSON TAYLOR: I sure can.

12 MR. JELINCIC: I don't know whether you can hear
13 me or not.

14 Okay. Thank you.

15 I'm glad that this is an information item,
16 because, quite frankly, if you look at the agenda item,
17 the analysis does not support a change. But I'd also
18 point out that the analysis does not support a decision
19 not to make a change. A review that contains no analysis
20 is not much of a review and it's certainly not much an aid
21 to the Board.

22 The information provided makes it clear that the
23 world has changed. Among other things, you're being told
24 that 30 percent of your asset allocation is likely to
25 return a third less than you had assumed, but you're also

1 told that this will have no fiscal impact. And all's I
2 can say to that is really?

3 Thank you.

4 CHAIRPERSON TAYLOR: All right. Thank you.

5 So I want to make sure I don't have any
6 additional questions on this before I move on. All right.
7 So I do not. So let's move on to 8B, the consultant
8 public fund universe report.

9 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: All
10 right. So let me get our panelists in and then I'll let
11 Ben introduce this one too. So let's start, Jared, if we
12 could move Eric Baggesen, Christine Reese, Dianne
13 Sandoval, Steve Foresti, and Steve McCourt back into the
14 attendee area. And then if we could bring Tom Toth from
15 Wilshire into the panelist area.

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

18 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Ben,
19 over to you.

20 CONFERENCE MODERATOR: Hi, Tom. You should be
21 able to turn on your audio and video.

22 MR. TOTH: I have. Can everybody hear me okay.
23 Great.

24 So I will try to be concise with my comments, but
25 I think there's some interesting data points in here that

1 should help inform the discussion as we move forward,
2 particularly as it relates to asset allocation.

3 If you'd flip forward to page two.

4 --o0o--

5 MR. TOTH: This is the universe comparison of the
6 CalPERS results relative to other large plans defined as
7 greater than -- greater than \$10 billion in size.

8 This is a report that we have historically done
9 in September of each year, but we've moved it into March.
10 So these time frames are all as of the end of Q1. So over
11 the last year on a relative basis versus other large
12 peers, the portfolio ranks in the top quartile. So very
13 strong universe rankings over that last year.

14 Over the -- I'll call it the intermediate time
15 frames, three, four, five years, the portfolio ranks right
16 around median, give or take a handful of percentile.

17 The ten-year number at the 65th percentile is
18 where that universe comparison becomes a bit less
19 favorable. And I think it's helpful to try to ascertain
20 why that is.

21 Now, before I get there, I think it's important
22 to remember on the next two pages, pages three and four,
23 that the plan in aggregate does exhibit less risk than the
24 median plan. And you can see that on page three, because
25 it plots in the upper left-hand quartile, which is kind of

1 where you want to be. That's more return for less risk.
2 And that's true in -- over the three-year period and close
3 over five years. You plotted the median return, but with
4 less risk, as you can see on page four.

5 --o0o--

6 MR. TOTH: Now, page five start to, I think,
7 illustrate some of the drivers of the differences between
8 CalPERS' portfolio and other large public plan universe.
9 This is consistent with past presentations. You can see
10 the portfolio does tend to have an overweight to global
11 fixed income ranking in the top quartile there in terms of
12 its asset allocation weight. If you add up the U.S.
13 equity and international equity weights, the portfolio is
14 also a bit above median with a more global orientation, as
15 you can see, a median allocation to U.S. equity and a top
16 quartile allocation to non-U.S. equity.

17 And it's that public equity which is really being
18 traded off against private equity. So you can see second
19 from the right column, that the asset allocation ranks
20 towards the bottom of the universe. And over this last
21 ten-year period as Dan pointed out, in the performance
22 report as Dennis talked as well, private equity really has
23 been a very strong driver of performance.

24 So when you take those two things together, a
25 higher allocation to global fixed income and a lower

1 allocation to less liquid private equity, that starts to
2 explain some of that ten-year performance.

3 As we get into the portfolio, if you flip to the
4 next page six --

5 --o0o--

6 MR. TOTH: -- the global public equity portfolio
7 has generally plotted right around -- right around the
8 median, except for that ten-year time horizon, you can see
9 that it -- while the universe dispersion narrows quite a
10 bit, the portfolio is ranked in the 83rd percentile. And
11 I contrast that with the page eight --

12 --o0o--

13 MR. TOTH: -- the private equity universe
14 comparison. I think this is pertinent as we talk about
15 that going forward to use the terminology you've heard,
16 investment in better assets. The CalPERS private equity
17 portfolio actually ranks rather well versus other large
18 peers over longer time horizons, so over seven and ten
19 years, it ranks close to the top third, in the 37th
20 percentile.

21 Now, is it a driver of overall portfolio returns
22 because of its lower weight? That hasn't had the same
23 impact as some of your other large peers. The asset
24 allocation chart showed that the median allocation to
25 private equity in this universe was somewhere in the

1 neighborhood of 18 percent versus the eight percent
2 target, and a bit less actually invested within the
3 CalPERS portfolio.

4 It's also worth keeping in mind and not news I
5 think to the Committee members that finding the right
6 strong private equity portfolio -- private equity
7 opportunities, that will actually move the needle in a
8 Cal -- a portfolio of CalPERS's size is -- is a challenge.

9 And then finally, as we -- as I wrap-up here on
10 page ten --

11 --o0o--

12 MR. TOTH: -- I did mention that the portfolio
13 does tend to have a higher allocation to global fixed
14 income. When we look at the results of the global fixed
15 income portfolio, you can see that it ranks at or near the
16 top across all time periods. So the -- and that's driven
17 by two primary factors. One is the strategic direction of
18 the global fixed income portfolio, which does have a
19 higher duration component, as well as the active
20 management that the global fixed income team has produced
21 over time. When you put all of those together and compare
22 them to the broader fixed income universe for large plans,
23 you can see some very strong relative results. Let me
24 stop there and see if there are questions on the universe
25 comparisons.

1 CHAIRPERSON TAYLOR: Sure. Thank you, Tom. I
2 appreciate the report.

3 I have a couple of questions. Number one, and I
4 think I've asked you guys to do this before, can you make
5 these bigger --

6 (Laughter.)

7 CHAIRPERSON TAYLOR: -- for those of us who are
8 older?

9 MR. TOTH: We can try. There is a lot of white
10 space on here. So let me see if we can -- if we can blow
11 it up to make it a little bit easier to read. I know
12 there's a lot of real small numbers there.

13 CHAIRPERSON TAYLOR: Yeah. No, it's just -- it's
14 real tiny. And, yeah, on the iPad, I can, you know,
15 squeeze it and make it bigger and stuff, but it's just
16 difficult to read. Especially if this were a slide show
17 on the auditorium, that would be really hard.

18 MR. TOTH: Right.

19 CHAIRPERSON TAYLOR: Additionally, then my other
20 question is if we are -- I just have a hard time looking
21 at this, if we're comparing ourselves to other pension
22 funds that aren't as complex as ours, because we have,
23 what is it, 3,000 some odd different types of pensions
24 based on our city, and local, et cetera, et cetera, but
25 also \$10 billion isn't even close to us.

1 I'm wondering if we should start paring that
2 universe down a little bit to be more reflective or pull
3 in other funds that are more reflective of our fund, so
4 that we can get a better comparison, because when you're a
5 larger fund, one of the things we talked about a minute
6 ago was the inability to deploy funds in private equity.

7 And that -- I've heard often that that comes from
8 us being so big. And it's not -- it's not worth our time
9 to be deploying little amounts of funds in private equity.
10 So I just am wondering if we should -- the universe
11 comparison could be a little more closer to who we are,
12 reflecting the complexity of our membership and the fund
13 itself?

14 MR. TOTH: Madam Chair, those are all very fair
15 points. And I think that the challenge is you start
16 increasing that cutoff and the universe just continues to
17 shrink. Although, we can certainly take a look and see
18 what that -- what those numbers show.

19 I think the second point is more pertinent, and
20 that's to your point about complexity, ultimately, this
21 portfolio needs to be managed relative to the CalPERS
22 commitments, not relative to how it looks versus other
23 public plans.

24 And I think --

25 CHAIRPERSON TAYLOR: Right.

1 MR. TOTH: -- while this is useful information,
2 I'm generally leery of universe comparisons for that
3 simple fact this is -- CalPERS has very specific defined
4 liabilities, and this portfolio should be managed to meet
5 those liabilities over time. Maybe that's similar to
6 other large public plans, but maybe there are some
7 differences.

8 And so while we're -- we'll continue to give you
9 this information, I certainly would caution anybody who
10 would look to try to use this as justification for why a
11 portfolio's strategy should be shifted.

12 VICE CHAIRPERSON TAYLOR: Great

13 CHAIRPERSON TAYLOR: And I get that. I get that.

14 I have another question from Ms. Olivares. Go
15 ahead.

16 COMMITTEE MEMBER OLIVARES: Thank you, Madam
17 Chair. Thank you, Tom. This is great. As we look at
18 page five of 14, Ms. Taylor commented on private equity,
19 I'm trying to understand why we ranked 79th when it comes
20 to liquidity and cash?

21 MR. TOTH: So the -- simply the weight of
22 liquidity in the portfolio at one percent is at that 79th
23 percentile versus some of the other peers here. You can
24 see that the 50th percentile is closer to 3.75 percent.
25 That's just based on the targeted asset allocation. This

1 is not a judgment on the liquidity position of the
2 portfolio in aggregate, which, as staff has pointed out,
3 is a much more complex management facet than just a
4 targeted allocation to cash.

5 COMMITTEE MEMBER OLIVARES: Yeah. Let me
6 rephrase my question. I understand what this says. I
7 want to know your opinion on it, in terms of where we
8 stand with our liquidity position?

9 MR. TOTH: I think the liquidity position at one
10 percent is appropriate, given --

11 COMMITTEE MEMBER OLIVARES: Um-hmm.

12 MR. TOTH: -- the other areas of liquidity that
13 can be tapped, if necessary. One of the things Ben has
14 said around liquidity is that too much liquidity is
15 costly, and too little liquidity is deadly.

16 COMMITTEE MEMBER OLIVARES: Right.

17 MR. TOTH: And ultimately, it's a balancing
18 between looking to generate returns and then looking to
19 have safety. So I think at a one percent position, that
20 seems reasonable. And, in fact, as we look at doing
21 optimizations, utilizing our asset class expectations, we
22 were talking about that a little bit --

23 COMMITTEE MEMBER OLIVARES: Um-hmm.

24 MR. TOTH: -- previously, generally speaking,
25 unless you put constraints in terms of the level of

1 liquidity you want in the portfolio given the dearth of
2 expected returns there, it tends --

3 COMMITTEE MEMBER OLIVARES: Right.

4 MR. TOTH: -- to fall out completely.

5 COMMITTEE MEMBER OLIVARES: Yeah. I'm not
6 expecting great yields from short-term securities right
7 now.

8 MR. TOTH: Right.

9 COMMITTEE MEMBER OLIVARES: Short-term
10 treasuries. Yeah. Thank you.

11 MR. TOTH: Um-hmm.

12 CHAIRPERSON TAYLOR: My next question is from Ms.
13 Middleton.

14 COMMITTEE MEMBER MIDDLETON: Tom, thank you.
15 This is really good. And my questions are -- come back to
16 private equity. And I think you had touched on this in
17 your answer just previous to Ms. Olivares. But what I'm
18 reading here is that compared to other institutional
19 investors, we have less in private equity that we are
20 doing well, comparatively in the investments that we do
21 have.

22 That would seem to argue, notwithstanding that
23 you always have to look at the specific deal in front of
24 you, that the strategy that we've adopted of increasing
25 our assets in private equity is heading in the right

1 direction. Am I missing something?

2 MR. TOTH: Ms. Middleton, no, I don't think
3 you're missing anything. I think those are spot on.

4 COMMITTEE MEMBER MIDDLETON: All right. Thank
5 you.

6 MR. TOTH: Um-hmm.

7 CHAIRPERSON TAYLOR: Great. I don't have any
8 additional questions and I do not believe I have any
9 public comments on this one. So thank you very much, Ms.
10 Toth. It was great a report, except for how tiny it is.

11 (Laughter.)

12 MR. TOTH: Thanks very much.

13 CHAIRPERSON TAYLOR: All right. Moving on to 8c,
14 that's our investment strategy on climate change.

15 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Yeah.
16 And, Jared, can I ask you to move Tom back to attendee.
17 And if we can move Anne Simpson, Divya Mankikar, and
18 Daniel Ingram from attendee to presenter, that would be
19 great.

20 CONFERENCE MODERATOR: I'm sorry, who was that
21 last one?

22 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: The
23 last one was Daniel Ingram from Wilshire.

24 CONFERENCE MODERATOR: Got it. Okay. Anne and
25 Divya, you should be able to turn on your audio and video.

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

3 CONFERENCE MODERATOR: And, Mr. Ingram, you
4 should also be able to turn on your audio and video.

5 CHIEF INVESTMENT OFFICER MENG: Okay. Divya and
6 Anne, are you ready?

7 INVESTMENT MANAGER MANKIKAR: Yes.

8 CHAIRPERSON TAYLOR: Anne, you're on mute. Anne.
9 Anne.

10 CHAIRPERSON TAYLOR: It's not showing she's on
11 mute. So I think --

12 CHIEF INVESTMENT OFFICER MENG: Okay. So Anne is
13 having audio problems. So, Divya -- Divya, are you
14 online?

15 INVESTMENT MANAGER MANKIKAR: I am and I can go
16 ahead.

17 CHAIRPERSON TAYLOR: Thank you, Divya.

18 CHIEF INVESTMENT OFFICER MENG: Divya -- please
19 go ahead Divya.

20 INVESTMENT MANAGER MANKIKAR: Great. So I think
21 we can start on slide two of this deck. And thank you,
22 everyone. Divya Mankikar, Investment Manager.

23 --o0o--

24 INVESTMENT MANAGER MANKIKAR: If we can go to the
25 next slide. If we go to slide two.

1 CHAIRPERSON TAYLOR: Divya? Divya?

2 INVESTMENT MANAGER MANKIKAR: I can't hardly hear
3 you. I don't know if you need to be close to your mic or
4 put a headset on.

5 INVESTMENT MANAGER MANKIKAR: Is that better?

6 CHAIRPERSON TAYLOR: Much better.

7 INVESTMENT MANAGER MANKIKAR: Okay. Sorry. So
8 if we can go to slide two of this deck, I can review a few
9 slides. And thank you, everyone, for reviewing the slides
10 and the report.

11 We're just going to cover three slides here in
12 the interest of time, and then leave plenty of time for
13 questions and answers, of course.

14 --o0o--

15 INVESTMENT MANAGER MANKIKAR: So the -- this item
16 is to discuss our draft task force for climate related
17 financial disclosures report. It's our first report in
18 response to the guidance created by the Financial
19 Stability Board. And we have really taken the advantage
20 to showcase a lot of work that has been developed by
21 CalPERS over years in recognition that climate change
22 presents risk and opportunities to CalPERS.

23 As an intergenerational and universal owner with
24 a global diversified portfolio, there's really nowhere
25 that we can hide from climate change. And so this report

1 helps to explain how we consider the major risks and
2 opportunities to our portfolio and what activities we've
3 undertaken to mitigate those risks where we can.

4 I think we have Anne off of mute now. I can
5 continue, or Anne, if you wanted to take over from -- we
6 wanted to now go to slide nine, which covers one of the
7 highlights of the report.

8 (Voices in the background.)

9 CHAIRPERSON TAYLOR: Someone is not on mute.

10 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON:

11 Thank you. Thank you.

12 CHAIRPERSON TAYLOR: Someone is not on mute.

13 Hold on, Anne. Someone is talking and not on mute.

14 Thank you. Go ahead, Anne.

15 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON:

16 Yeah. Thank you very much, everybody. And thank
17 you, Divya, for kicking us off. As Divya rightly said,
18 the reason that CaPERS considers climate change as part of
19 its investment strategy is we see both the risk and the
20 opportunity to the portfolio. So this is our first report
21 to the TCFD, the Task Force on Climate-related Financial
22 Disclosure. Everything goes by an acronym these days,
23 right?

24 And in this 60-plus pages that we've given you,
25 we've really set out in great detail the strategy that

1 CalPERS has developed, which is -- reflects our size. In
2 other words, we are globally exposed. And it also shows
3 the potential impact for the strategy that we're
4 developing. So the strategy that our Board adopted for
5 climate change was just one element in our strategy on
6 sustainable investment.

7 And you'll see that we set out on one of the
8 slides that strategy has three parts. The first is
9 engagement. And that's where we as the -- no, we don't
10 need to go back. It's okay.

11 Thank you.

12 That engagement, that's where we use our
13 influence as the provider of capital to companies as the
14 owners, the co-owners of these companies. The second part
15 of our strategy is advocacy. And that's where we talk to
16 the policymakers and regulators around the world to make
17 sure that we have the rules in place so that the market
18 does what the market does best. The third element in our
19 strategy is integration. And that's where we use all of
20 this data and analysis to help us as investors make more
21 intelligent and better informed long-term decisions.

22 What underpins all of this is partnership, because
23 although CalPERS is one of the largest asset owners in the
24 world, whenever we move on a systemic risk like climate
25 change, we need to partner with others. So the slide that

1 we're on at the moment shows you some highlights from the
2 report to show you what we've been doing with our
3 engagement part of the strategy.

4 I'm glad to say working with Divya Mankikar,
5 who's one of the key architects of this project, the
6 original data and the design, CalPERS convened and became
7 a co-founder of what many of you will know as Climate
8 Action 100+. Now, why does that matter? It's because
9 what we did with look at our whole portfolio and identify
10 where the biggest sources of the emissions were coming
11 from.

12 And we found that the majority came from just a
13 hundred companies. So we've teamed up with other
14 investors globally. And now, the signatory base for this
15 initiative has \$40 trillion in assets under management,
16 which makes it if -- we believe it's the largest
17 shareholder action project that's been attempted on a
18 specific issue.

19 So just to give a sense of what these 100
20 companies are responsible for in terms of emissions,
21 you'll see at the end of the report, we've got a very
22 detailed appendix, which sets out the emissions of these
23 companies and then calculates how much difference it would
24 make if these companies came in line with what we're
25 asking for, which is to set targets that get us to net

1 zero emissions by 2050.

2 Could we have the next slide. Thank you.

3 --o0o--

4 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON: So
5 we started this project. It was launched at the One
6 Planet Summit. Thank you very much, the Controller. She
7 was there and took that lead role getting us launched at
8 that important global meeting.

9 We want to just flag in the report that the
10 companies that we're engaging are responsible for such an
11 enormous amount of emissions, that even just looking at
12 their direct and indirect emissions, what gets called
13 Scope 1 and 2, comes from about 55 gigatons. Now, a
14 gigaton I certainly know is very hard to even imagine
15 quite how big that is. But we've calculated that those 55
16 gigatons are the equivalent to taking 12 billion cars off
17 the road.

18 And some have said that we're being too ambitious
19 in this project, because we're taking on the biggest
20 global emitters of greenhouse gases. But what we've given
21 you is a few examples on this slide to show you that we're
22 having impact in companies in different markets and in
23 different sectors, and very heavy emitting factors like
24 oil and gas, cement, steel making, and also good old
25 Pepsi-Cola, and Nestlé.

1 So we're looking at the totality of emissions for
2 companies, which is why this is a very ambitious project.
3 And our goal is each company gets to net zero by 2050.

4 Could we go to slide 11? Thank you.

5 --o0o--

6 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON:

7 The second element in our strategy recognizes
8 that the markets can suffer from a lack of information and
9 that makes them less efficient. So one of our goals here
10 is to have mandatory climate risk reporting. And I'm glad
11 say this is being teed up for part of the agenda for
12 COP26, which will be in Glasgow next year. We've also
13 been working hard at the SEC and also at the international
14 accounting standards community to get this essential
15 information integrated into company reporting.

16 This builds on the TCFD, which is currently a
17 voluntary framework. We're also feeling very hopeful
18 about the prospect for expanding carbon pricing into new
19 markets. Some of you will have seen and there were no
20 less than eight different bills going through Congress in
21 the United States looking at different ways to bring
22 carbon pricing forward. And another element, of course,
23 is the removal of fossil fuel subsidies.

24 Both of our priorities in advocacy are designed
25 to foster market efficiency. And from investor's point of

1 view, pricing externalities, getting the flow of
2 information that investors needs is absolutely essential
3 when we're thinking about risk and return.

4 Could we go to the next slide. Thank you.

5 --o0o--

6 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON: So
7 this is just a snapshot from the very detailed data work
8 that's been done by CalPERS. And Divya has led this work,
9 but I do want to credit all of our asset classes who took
10 this question of digging in on both transition risk and
11 physical risk across factors, across asset classes took
12 this work very seriously and put a tremendous amount of
13 thought, care, and analysis into this work.

14 We also commissioned external data providers to
15 give us independent assessment of where we think we are
16 making a difference on the investment decisions that we're
17 taking.

18 Can I go to the next slide. Thank you.

19 --o0o--

20 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON:

21 Here, just for visual purposes, is a range of the
22 partnerships through which we're working. They range from
23 the United Nations, to the Vatican, to groups likes PRI,
24 Ceres, and of course Climate Action 100+, which is very
25 much something that CalPERS put into motion.

1 So finally, let's look at the last slide.

2 --o0o--

3 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON: So
4 here's the question. In doing this tremendous amount of
5 work, what did we learn?

6 The first is that the real economy is not on
7 track to achieve net zero emissions by 2050. And I think
8 this is well understood, that our portfolio reflects the
9 real economy, because of our size and our global
10 diversification. That means our strategy has to get to
11 the root cause of greenhouse gas emissions, which are
12 causing global warming. There are many factors, but the
13 part that's under the control of public, and private, and
14 civil society groups the emissions which are coming out of
15 the real economy. And that's what our strategy is
16 designed to have an impact on.

17 So through Climate Action 100+ we're modeling
18 what the impact of that will be. Through advocacy, we're
19 focusing on the flow of data and information for the
20 pricing of risk and opportunity. And on integration,
21 you'll see that in line with our target rates of return,
22 CalPERS is already finding very attractive investment
23 opportunities. And we have assessed that about 18 percent
24 of our private markets investments are broadly termed
25 "climate solutions".

1 So the other message from this big and very
2 detailed report is we have to do two things. The first is
3 we need to build resilience on climate change in our
4 portfolio. So some of the work that you'll see in the
5 report, which looks at modeling vulnerability to physical
6 risk is very important for us making sure that we
7 understand the risks the portfolio is exposed to, and
8 secondly, quite properly in line with CalPERS Investment
9 Beliefs, that those risks are being rewarded.

10 And the second is that when we're taking
11 opportunity in line with climate change, we need to make
12 sure that we have got that seven percent target rate of
13 return front and center, because if we fall down on that
14 fiduciary duty, then the consequences for our members are
15 really very serious indeed.

16 So the message finally from this report, we were
17 writing it just as the COVID-19 impact was being felt
18 around the world and with it's brutal impact on
19 communities. And we've said this and we wanted to finish
20 with this message, when tackling a systemic risk, the
21 lessons are evident. We need vision, we need partnership,
22 and a relentless pursuit of science to drive decision
23 making.

24 And when we're fiduciaries and we're allocating
25 the capital for our members, nothing could be more

1 important. So Divya is our expert on the climate change
2 data and analysis in this report. And she and I will be
3 glad to answer any questions that you might have.

4 Thank you.

5 CHAIRPERSON TAYLOR: Thank you, Anne. Thank you,
6 Anne and Divya. Great reports. I read through the entire
7 TCFD report. I'm very happy with it. I do know that,
8 yes, we are not on track to net zero by 2050. And that's
9 because our portfolio reflects the entire economy, but --
10 and I appreciate what you've got here at the end. I
11 really hope that we are looking to work harder, drill down
12 some more on some more of these companies to get to where
13 we need to be. But I applaud the work you have already
14 done. It's really, really good work. So thank you very
15 much for a great report.

16 I do have a question --

17 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON:

18 Thank you.

19 CHAIRPERSON TAYLOR: -- from Ms. Yee.

20 Go ahead, Betty.

21 COMMITTEE MEMBER YEE: Okay. Got it. Thank you.
22 Thank you, Theresa.

23 Let me also add my compliments to Anne and to
24 Divya. You know, this report has only been possible
25 because of all of the years of work that both of them have

1 done, and certainly the leadership position that both of
2 them have, you know, really thrust CalPERS in in a global
3 setting relative to how we continue to do this work on
4 climate risk. And I have to say how historic this report
5 is. You know, reading through it. I just see a lot of
6 potential for moving the needle with respect to setting an
7 expectation for companies to also report in this manner.
8 The fact that we have Scope 3 emissions information here
9 is telling companies this is not impossible to disclose.
10 And so I think this is really a game changer with respect
11 to no longer dragging our feet on the -- in response to
12 the TCFD framework. So thank you both for -- for really
13 just putting CalPERS out there as a leader in this regard.

14 I have a couple questions. And that is I guess
15 now in terms of incorporating this work into our ALM
16 process, and this is really, as you said, both about, you
17 know, capturing and really identifying where the risks
18 are, but also looking at some solutions and opportunities.
19 And so I wanted to first just ask, you know, how will this
20 work be incorporated, and if you can describe perhaps
21 the -- the -- how the asset classes will use this
22 information going forward to transition the portfolio to a
23 more sustainable one, hopefully meeting the goals of the
24 Paris Agreement, but as you said very much focused on our
25 seven percent return?

1 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON:

2 Thank you. Thank you very much for that -- for
3 those kind words, Controller Yee and also Madam Chair. We
4 greatly appreciate that.

5 I'd like to answer the first part and then ask
6 Ben to comment on the ALM process.

7 COMMITTEE MEMBER YEE: Great.

8 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON:

9 The first part, and this I think reflects the
10 tremendous work Divya has been leading, so she may like to
11 add to this, the asset classes are already using this
12 information. When you see in the report sector by sector
13 the guidance from the TCFD was to, you know, start with
14 energy and get all the way down to agriculture. The
15 building of that analysis on risk is done across the asset
16 classes. So Divya, let me just ask you to add a little
17 more on that, because I think it really is the foundation
18 of the report and then ask Ben to comment on where he see
19 the value with this type of analysis for the benchmark
20 work.

21 So, Divya.

22 INVESTMENT MANAGER MANKIKAR: Sure. Yeah, happy
23 to. Thank you. And thanks to both the Chair and
24 Controller Yee for your comments. It was very
25 appreciated.

1 So in terms of how we are working with asset
2 classes to integrate information. I can use an example of
3 really (inaudible) the report, as it has become -- it has
4 gained some momentum. So we look with the asset classes
5 across asset class teams at transition risk, which are,
6 you know, changes in consumer demand that might drive
7 (inaudible) on way or another for companies. Changes in
8 technology, for example, scaling up the availability of
9 easy use and changes in policy, for example, carbon
10 pricing. And then we also looked at physical risks
11 developed by Wellington and Woods Hole Research Center,
12 and really went asset class by asset class to say how does
13 this impact their investment decisions.

14 And one of the things that we heard back from our
15 peers is, for example, we have a colleague in fixed income
16 who engaged some transportation companies on the back of
17 this and learned that sure enough, it's in the report as
18 well, there's a rail company operating in the Southern
19 United States that has higher exposure to (inaudible) and
20 is sending more capital on placing rail ties. So we're
21 seeing those impacts already occur in our portfolio and
22 seeing companies respond to increased climate change.

23 And I think one of the main benefits of this
24 research is that the asset classes are asking more
25 detailed questions from their portfolio companies and

1 then, you know, (inaudible) create across their sort of
2 sector of places.

3 So I'll turn to Ben for the response to your
4 other question.

5 CHIEF INVESTMENT OFFICER MENG: Thanks, Divya.
6 Controller Yee, thank you for the question. Yes. We
7 understand that one, two among many to address our
8 exposure to climate risk is to consider climate data in
9 our benchmark. The research for this is on the way. And
10 the new development is that we're seeking a university
11 partner to help us validate the data and the models that
12 exist. By doing this, we can incorporate the most
13 verifiable evidence into such a decision at the
14 appropriate time.

15 As you may recall, the CalPERS commissioned the
16 Sustainable Investment Research Initiative, or what we
17 call in short SIRI, to review evidence as we develop our
18 strategic strategy plan, the five year strategic plan. So
19 this new work, or what we call SIRI 3 on climate change
20 will form the third round of that project. So the
21 research is underway. Another point as we just -- the
22 item right in front of us now, you know, it's also
23 highlighted the challenge we face in terms of the data,
24 the TCFD only requiring, you know, monitoring reporting
25 data, and this isn't the first time that we, among others

1 TCFD participants, but disclosing monitoring data.

2 So as Anne and Divya mentioned, we would need to
3 see mandatory data and also some standardization of data.
4 And with data, and the research, and the science, and
5 evidence, we'll make a decision at the appropriate time.

6 COMMITTEE MEMBER YEE: Thank you.

7 And I guess on that last point, maybe back to
8 Anne. So what can CalPERS do in terms of really appealing
9 to other institutional investors to engage with their
10 companies similarly, so we can, you know, have more to
11 work with and hopefully get some more accelerated and
12 expanded considerations for these types of disclosures and
13 decisions.

14 CHAIRPERSON TAYLOR: Anne, you went away again.

15 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON:

16 Hello. Am I back?

17 COMMITTEE MEMBER YEE: Yes.

18 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON:

19 Thank you. Two pieces of equipment going on at
20 the same time. I apologize greatly. The -- you've raised
21 a very important point, Controller Yee. And I think what
22 we need to do is get out of the work -- the world of
23 treating voluntary reporting as an end in itself. It's a
24 means to an end. It's where we develop best practices, we
25 experiment, we pilot, but then if we don't get it

1 mandatory and integrated into the financials, we're never
2 going to move the money.

3 So I think making that argument and we know,
4 because we have some wonderful groups like SASB, and the
5 GRI, and Ceres doing fantastic work, PRI doing fantastic
6 work. But you know, at the end of the day, if you don't
7 get this in with the financials, the markets will not move
8 the money, because they have no way to ensure that it's
9 standardized, as Ben said, that it's timely, that's it
10 relevant, or that it's very verified.

11 So, you know, 150 years ago, all of that was true
12 of financial accounting. And it took a lot of work to
13 get -- to get you U.S. GAAP and IFRS overseas. So -- but
14 we are feeling hopeful with COP26 next year that Mark
15 Carney, who's special advisor to the UN, that he is
16 actually now championing this, even though TCFD started
17 off life as a voluntary framework.

18 So it's sort of time for a little more ambition.
19 And investors that's for whom these reports are produced.
20 So the customer is always right, right?

21 We, the investors, we're the customers for
22 financial reporting. So make sure it's got what we need,
23 as long-term universal owners. So I think there's great
24 possibility in the next round.

25 Thanks very much.

1 COMMITTEE MEMBER YEE: That's great. Thank you.
2 Thank you for the great work.

3 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON:
4 Thank you.

5 CHAIRPERSON TAYLOR: Thank you, Ms. Yee. I just
6 wanted to also reiterate I think Ben and I have discussed
7 this before, and I agree we need mandatory reporting.
8 We're in no position to get that through advocacy right
9 now I think through the federal government, and get rid of
10 fossil fuel subsidies as a must as well.

11 So I guess my question is in the meantime, the
12 advocacy that we have to wait for a little bit and hope
13 that we can get in -- in to get it passed soon, not just
14 in California but federally. In the meantime, as we're
15 asking for more companies to do what we're doing, do the
16 TCFD reporting, et cetera, how -- we have really good
17 successes. We don't have a lot, but I'd like to see -- we
18 have huge companies though. But at the same time, how do
19 we double down and get more results without, you know, the
20 mandatory stuff? Because right now, we're in a position
21 where we can't get the mandatory stuff. So I guess I'm
22 just asking for some of your ideas. I know this is a
23 difficult position to be in, but we're kind of stuck.

24 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON:
25 Well, if it was easy to do, it probably wouldn't

1 be worth doing. So if we're tackling an issue as big as
2 this, we should expect to commit our very best ideas, work
3 with others, and then stay the course be committed. So
4 I'd just like to say that internationally, the European
5 Commission is actually moving on this. And this is now
6 posed a question to the SEC.

7 CalPERS has long had a seat on the Investor
8 Advisory Committee at the SEC. I'm very honored that
9 that's currently me. And what we have written is a whole
10 series of recommendations reviewing the evidence,
11 reviewing the data that we don't have, as much as the data
12 that we do, and making the economic, the financial case
13 for the reporting.

14 Now, the final piece of work that we've just done
15 is pointing to the fact that U.S. companies are going to
16 start to be at a disadvantage in the capital markets,
17 because if investors don't feel confident about how
18 companies are mitigating these risks, how they're
19 redeploying capital for the long term, how they're picking
20 up the technology, how they're dealing with the impact on
21 their employees and their communities, you know, that's
22 all part of the Climate Action 100+ agenda.

23 And, you know, they're going to have -- you know,
24 the competition will eat their breakfast, maybe eat their
25 lunch as well. But it's very interesting to see how this

1 has now turned into a competitive issue between companies.
2 And it's global markets, we're a global investor, so we
3 just need to keep moving.

4 And I have to give credit to the Chair of the
5 SEC, Jay Clayton, because he is really very thoughtful
6 about the fact that we've got a 21st century economy and
7 we've got 19th century thinking about reporting. Those
8 are my words not his, by the way. You know, backwards
9 looking, fixed point in time, with a focus on tangible
10 assets.

11 So, you know, the time is right for really
12 thinking about what investors need by way of information,
13 not just because of climate change, but because of the
14 nature of what the economy really is.

15 CHAIRPERSON TAYLOR: Excellent. Thank you, Anne.
16 Also, because we engage like we do, I just wanted to ask
17 you to talk a little bit about what would happen if we
18 weren't there to engage, as big as we are?

19 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON:

20 Well, here's the thing, how -- what's our theory
21 of change? Our theory of change is this, that we provide
22 the capital to companies. We have ownership rights, where
23 we hold equity. And we're also saying that climate change
24 brings two risks. One is transition risk. That's, wow,
25 what's going to happen to this company as they have to --

1 it's a utility. They're going to move from coal, to gas,
2 to renewables. These are very big changes. And we want
3 that company to be successful, so that's one
4 consideration.

5 But there's a second, which is if we walk away
6 from the companies where these emissions continue to belch
7 out into the atmosphere, we feel vulnerable, because even
8 if we don't own a piece of that company, we're going to
9 feel the impact of those emissions. So we need to get to
10 the spigot. We need to turn off the spigot through a new
11 strategy for these companies, which is a very ambitious
12 thing to do. But the examples that we're showing you in
13 oil, in cement, in agriculture show that by being very
14 clear and very specific that companies want, that they
15 need to do. This target of net zero by 2050 means about
16 an 80 percent cut in emissions in the biggest group of
17 emitters in industry.

18 So even if it was a question of walk away,
19 because it all feels too difficult and too tough, we don't
20 mitigate the risk. You still have global warming, because
21 those emissions are continuing to belch out. So it's a
22 problem that many don't want to solve. You're going to
23 have to. So it's a question of rolling your sleeves up
24 and getting on with it.

25 And you can't do that if you're not -- if you're

1 not there, if you're not an owner. And also we've been
2 able to show it's not just that it's CalPERS, building
3 this alliance of \$40 trillion globally, where we're asset
4 owners right around the world, asset managers in every
5 market are joining us, that is really going to be the
6 force of the fiduciary, bringing to bear for the risk and
7 for the opportunity on behalf of our members.

8 CHAIRPERSON TAYLOR: Well again, thank you, Anne.
9 Thank you, Divya. This is a great report. Great answers
10 to our questions. I want to roll up my leaves and work
11 harder. Let us know what we can do for you. We will
12 continue to work on this and get it in line to where we
13 need to be. So let's triple our efforts and do that.

14 Thank you.

15 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON:

16 Thank you.

17 INVESTMENT MANAGER MANKIKAR: Thank you.

18 CHAIRPERSON TAYLOR: I've got public commenters
19 on 8C. So Mr. Fox, Kelly.

20 COMMITTEE MEMBER OLIVARES: Oh, Theresa, I
21 actually had a question and a comment.

22 CHAIRPERSON TAYLOR: Oh, I'm sorry. I didn't see
23 yours. I saw Lisa Middleton's, but I didn't see yours,
24 and she pulled hers back.

25 Go ahead. Go ahead, Stacie.

1 COMMITTEE MEMBER OLIVARES: Thank you, Madam
2 Chair. Divya and Anne, this is a very compelling report
3 and so timely. As we struggle with the COVID pandemic,
4 there have been many articles and studies most notably
5 from Harvard School of Public Health on the relationship
6 between climate change and pandemic risk.

7 And so as it seems as our climate will continue
8 to change, right? We can't completely put that to a stop.
9 That we have increasing risk from pandemics, which will,
10 of course, increase our health care costs, increase
11 liability, and suppress economic returns. What are we
12 looking at in this space in terms of 10, 20, 30 years
13 ahead?

14 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON:

15 Ms. Olivares, thank you very much for that
16 thoughtful question. I think when we're looking ahead in
17 that way, we're looking for a theory of everything. We're
18 looking for joined-up thinking, a holistic -- a company
19 that tackles climate change, but doesn't take care of its
20 technology innovation, doesn't look after its employees,
21 doesn't look after its reputation is going to fail.

22 And I think, you know, some years back when they
23 were launched, CalPERS was one of the first investors to
24 recognize the sustainable development goals. And there's
25 17, which were adopted by close to 200 governments. And

1 we've said, you know, this is the world's to-do list.

2 And this includes issues of gender equality,
3 inequality, the future of work, health, and really
4 provides a framework in which governments are attempting
5 to not just understand these individual risks, but how
6 they compound each other, how -- you know, what's the
7 domino effect as one -- as one issue hits another.

8 And I think the Board is aware that our Chief
9 Executive, Marcie Frost, sits on a special panel that the
10 UN Secretary General drew together precisely to look at,
11 well, what are the financial markets going to make of this
12 framework of holistic thinking for sustainable
13 development?

14 Because I think if we don't, you know, start to
15 look at these issues in an integrated way, we're not going
16 to make progress. And I do feel that's very consistent
17 with CalPERS' Investment Beliefs. You know, our three
18 forms of capital that we highlight, that long-term value
19 means stewardship of financial capital, but also human
20 capital, physical capital. And the relationship between
21 all three are not just the source of risk when things go
22 wrong, they're also the sense that they're potential
23 returns, which we -- which we are, more precisely the
24 Board, was hearing all about today and the important work
25 that Ben's leading in the Investment Office.

1 So we can't -- we can't do -- we can't pick and
2 choose particular issues. We've got to understand the
3 relationship between risks. And I think this new research
4 project, which Ben just mentioned, SIRI 3 is going to give
5 us an opportunity not just to dig in more deeply on the
6 climate issue, but it's going to help us understand how
7 these other factors are going to accelerate and affect
8 progress, because nothing proceeds in a neat and tidy
9 linear way. The connectivity between issues, the
10 catalytic effect from one issue to another is going to be
11 an extremely important part of this.

12 Thank you.

13 COMMITTEE MEMBER OLIVARES: What about the health
14 care impact? So as we have pandemics, right? If the risk
15 of pandemic increases with climate change, then we're
16 going to see more health care impacts. We're going to see
17 an increase in our liability. Are we working with health
18 care insurers to look at their models?

19 INTERIM MANAGING INVESTMENT DIRECTOR SIMPSON:

20 That isn't something that we've done. We've kept
21 a fairly clear bright line between, you know, the three
22 sides of the shop at CalPERS, the portfolio, the health,
23 and the pension system for benefits. So I -- I think that
24 would be a question for Marcie. I feel that's above my --
25 above my pay grade.

1 But my understanding is that the -- there needs
2 to be a careful separation for administrative purposes.
3 But Marcie or other person will be able to give a better
4 answer on that.

5 CHIEF EXECUTIVE OFFICER FROST: Thank you, Anne.
6 Yeah, there -- there really isn't a policy reason why we
7 would keep health care analysis and data outside of the
8 portfolio. We have been looking at opportunities where if
9 we can invest in health care types of assets, that would
10 help us with our long-term liabilities. That would be a
11 win-win for, you know, the two policies for the program --

12 COMMITTEE MEMBER OLIVARES: Um-hmm.

13 CHIEF EXECUTIVE OFFICER FROST: -- or of CalPERS.
14 So I don't -- I don't think we've looked at it from the
15 health care side. I think that's a legitimate question
16 that we should go back and take -- take a look at. But
17 there is no reason why we would be prevented from doing
18 so.

19 COMMITTEE MEMBER OLIVARES: Thank you.

20 CHIEF EXECUTIVE OFFICER FROST: Great insight.
21 Thank you.

22 CHAIRPERSON TAYLOR: Great. Thank you, Stacie.
23 Thank you, Marcie. Again, thank you Anne and Divya.

24 I'm going to move on to our caller. And Kelly
25 Fox.

1 STAKEHOLDER RELATIONS CHIEF FOX: Thank you,
2 Madam Chair. We have several callers. And I will start
3 with the first one on Item 8C and that would be Leonard
4 Skylar.

5 MR. SKYLAR: Hello. Can you hear me?

6 CHAIRPERSON TAYLOR: Yes, we can.

7 MR. SKYLAR: Hello. Thank you very much.

8 Yes. My name is Leonard Skylar. And I'm a
9 CalPERS retiree and I'm concerned about CalPERS
10 investments in fossil fuel companies, especially those
11 companies that are developing new sources of so-called
12 extreme fossil fuels, particularly from tar sands and
13 fracking.

14 My concern grows out of my career as a professor
15 in the Earth and Climate Sciences Department at San
16 Francisco State University, where my research was focused
17 on understanding how climate change is affecting water
18 resources in California and around the world.

19 And I want to, first of all, thank you for
20 producing the TCFD report. It is a very important advance
21 and shows continued leadership by CalPERS on addressing
22 climate change. I want to make that clear. We're very
23 pleased with this report.

24 But I also want to point to a key limitation that
25 I see to CalPERS strategy of engagement. And that is

1 engaging with companies whose business model fundamentally
2 relies on carbon emissions. For example, CalPERS owns
3 several billion dollars worth of tar sands exploration
4 companies. And the only way to reduce the emissions from
5 these companies is to reduce the activity of the company,
6 ideally to shut them down completely the way Michael
7 Bloomberg's company bought coal plant -- coal power plants
8 and shut them down.

9 You know, in the context of our climate goals,
10 exploration and development of new extreme fossil fuels
11 are simply not legitimate business activities from a
12 climate safety point of view. And what makes them extreme
13 is the high cost of exploiting these marginal fossil fuel
14 sources. Extracting oil from tar sands is only profitable
15 if oil prices are very high. But oil prices are now at
16 historic lows and may never recover, due in part to
17 competition from low-cost renewable energy sources, such
18 as wind and solar.

19 But I have to say, as a CalPERS retiree, it's a
20 bitter irony that the good news of rapidly falling costs
21 of renewable energy means bad news for aspects of my
22 pension fund. CalPERS is losing money by investing in tar
23 sands and fracking companies, and to my knowledge, failing
24 to reap the benefits of the boom in renewables.

25 So I urge you to change your algorithm for

1 selecting companies to invest in. Why can't CalPERS
2 equity investments track the S&P 500 fossil free index,
3 which over the ast several years has out performed the
4 market as a whole and greatly outperformed the fossil fuel
5 based energy sector.

6 I mean if the University of California pension
7 fund can manage its \$130 billion portfolio without
8 subsidizing the fossil fuel industry, why can't CalPERS?

9 So I'm making this comment today, not only as a
10 climate scientist and as a concerned CalPERS retiree, but
11 also as a father. My son graduated from high school just
12 last Friday. He and his generation face a very scary
13 future. By investing our pension money in these extreme
14 fossil fuel companies, CalPERS is putting my son's future
15 at risk --

16 STAKEHOLDER RELATIONS CHIEF FOX: Mr. Skylar,
17 I've got to ask you to wrap it up.

18 MR. SKYLAR: -- as well as the future of my
19 pension. So please direct CalPERS staff to draft a plan
20 for an orderly wind down of CalPERS investments in the
21 fossil fuel section --

22 CHAIRPERSON TAYLOR: Leonard. Leonard, I'm
23 sorry.

24 MR. SKYLAR: -- starting with the companies
25 engaged in tar sands.

1 Thank you very much.

2 CHAIRPERSON TAYLOR: Thank you. Go ahead, Kelly,
3 with the next person.

4 STAKEHOLDER RELATIONS CHIEF FOX: Yeah. Madam
5 Chair, it just takes a couple minutes to go through the
6 process here on the online access.

7 So the next caller Ferris Kavar. Are you timing
8 these as well, Madam Chair? And if you are, I can -- I'm
9 timing them, but it doesn't seem like they can hear me.

10 CHAIRPERSON TAYLOR: I think he was ignoring us.

11 (Laughter.)

12 CHAIRPERSON TAYLOR: So, yes, I have a clock as
13 well.

14 STAKEHOLDER RELATIONS CHIEF FOX: I'll make the
15 announcement.

16 CHAIRPERSON TAYLOR: Pardon me?

17 STAKEHOLDER RELATIONS CHIEF FOX: I'll make the
18 announcement at three minutes.

19 CHAIRPERSON TAYLOR: Okay.

20 STAKEHOLDER RELATIONS CHIEF FOX: And Mr. Ferris
21 Kavar, on Item 6C.

22 MR. KAWAR: Thank you. Yes. This is Ferris
23 Kavar. I have been a CalPERS member for over 11 years.
24 And in that time, there have been many indicators that the
25 fossil fuel industry is not the best investment for us.

1 You know, headline after headline from cities, states,
2 foreign nations show that they're passing laws to move
3 away from the burning of fossil fuels.

4 Military leaders and the world's top scientists
5 have all, you know, urged the transition from fossil fuel
6 products by the year 2030 or the consequences will be too
7 much for any of our systems to handle. Yet, you know, our
8 CalPERS still has over 30 billion of our investments
9 locked up in product that everyone agrees should not be
10 used anymore.

11 In addition, in the decades since I've been -- in
12 the decade since I've been a member, the fossil fuel
13 sector has consistently lost billions in fact. And the --
14 based on the analysis of public security filings over the
15 past ten years, the CalPERS' retirement fund would have
16 generated an additional 11.9 billion had the fund divested
17 their fossil fuels stocks a decade ago.

18 We need to take a stand for what is not only
19 right, but for what will protect our members' investments,
20 and afford us a solid financial retirement, as well as a
21 livable and enjoyable planet on which to retire. I urge
22 CalPERS to rapidly shed its fossil fuel holdings and
23 reinvest in clean energy companies, which is one of the
24 only sectors that can really provide enough good-paying
25 jobs to rebuild the economy we need so badly.

1 I appreciate your net zero-emissions goal by
2 2050, but that's not aggressive enough to avoid the worst
3 impacts of a warming planet by -- we should really be
4 doing it by 2030.

5 I also appreciate your willingness to engage with
6 companies. But it only can work on industries like you
7 mentioned, cement and agricultural -- agricultural
8 industries, but not on industries like oil, gas, coal,
9 because it's the primary business and it's a product that
10 is unburnable.

11 You have had decades to pressure these companies
12 to become energy providers as opposed to fossil fuel
13 providers. But we just simply don't have enough to show
14 for it. I would much rather see divestment as a next
15 logical step.

16 Finally, I would also suggest expanding the list
17 of a hundred companies that you're looking to -- to --
18 looking at to 200, which are -- have been well researched
19 in the fossilfreeindexes.com. I suggest taking a look at
20 those.

21 And I appreciate your time and the direction
22 you're going. I would just like to see it accelerated.
23 Thank you very much.

24 Bye-bye.

25 CHAIRPERSON TAYLOR: Thank you. Our next

1 comment, Kelly, when you can queue them up.

2 STAKEHOLDER RELATIONS CHIEF FOX: Madam Chair,
3 next we have Richard Godfrey.

4 CHAIRPERSON TAYLOR: Go ahead, Mr. Godfrey.

5 STAKEHOLDER RELATIONS CHIEF FOX: Mr. Godfrey, go
6 ahead.

7 DR. GODFREY: Hello.

8 STAKEHOLDER RELATIONS CHIEF FOX: Yes, Mr.
9 Godfrey. Go ahead.

10 DR. GODFREY: Thank you. I'll be very short,
11 because I'm in the midst of a rotary webinar. I just want
12 to thank you all for the work you do. I want to totally
13 support any direction, and it looks like you're looking
14 seriously at the issues of climate change and are making
15 changes in that direction. I'm also representing the
16 Union of -- excuse me, the United Churches of Christ.

17 And as you know, we divested in 2013. The
18 University of California has divested. We look forward to
19 your divestment. We feel very strongly that you're going
20 to make the right choices, and hopefully you'll do that in
21 good order. And thank you for the opportunity to comment.

22 CHAIRPERSON TAYLOR: Thank you.

23 STAKEHOLDER RELATIONS CHIEF FOX: Okay. Madam
24 Chair, we have Vanessa Warheit.

25 MS. WARHEIT: Hi. Can you hear me?

1 Hi. Can you hear me?

2 STAKEHOLDER RELATIONS CHIEF FOX: Yes. Go ahead.

3 MS. WARHEIT: Thank you.

4 My name is Vanessa Warheit. I'm Executive
5 Director of Fossil Free California. And my mother had
6 intended to speak today, but it's -- she's a retiree.
7 CalPERS retiree. I'm speaking on my own behalf. I signed
8 up to speak to Item 6C, because what I had to say is
9 actually about financial risk of fossil fuels and not
10 about climate change per se, because the fossil fuel
11 energy sector has suffered more than any other sector in
12 the current recession.

13 It suffers from huge oversupply, coupled with
14 shrinking demand. And this was even before the pandemic.
15 Falling oil prices had already made fracking and tar sands
16 a money-losing proposition. They were highly leveraged
17 and financed by junk bonds. During the pandemic, oil
18 prices plummeted and banks have now begun threatening to
19 seize the assets of fossil fuel companies that can't pay
20 back their loans.

21 CalPERS suffered huge losses in its fossil fuel
22 holdings in both equities and bonds. As of June 30th, two
23 year ago, CalPERS held \$2.7 billion in fossil fuel bonds,
24 including in companies that have since failed or are now
25 nearing bankruptcy. Unfortunately, a large share --

1 shareowner like CalPERS will be last in line to get paid
2 when these companies fail or when they're acquired for
3 pennies on the dollar.

4 Intolerable risk and miserable returns are the
5 hallmark of fossil fuel companies today, large and small.
6 On the small side, there's the California Resources
7 Corporation heading into bankruptcy, while handing out its
8 CEO a \$10 million bonus, and ExxonMobil, which was once
9 the darling of the stock market and one of CalPERS'
10 largest holdings, has seen its share price declines 42
11 percent over the past year. CalPERS lost nearly \$279
12 million in value from eight and a half million shares in
13 Exxon alone.

14 As other callers have told you, extreme fuel
15 extraction is the riskiest. During this recent crash,
16 CalPERS holdings in just 23 tar sands and fracking
17 companies lost \$1.5 billion in value in just nine months.
18 And even prior to the crash, between June 30th of last
19 year and February 21st of 2020, CalPERS holdings in tar
20 sands and fracking companies were already negative 3.3
21 percent. This is part of a long-standing trend of poor
22 performance.

23 The financial picture moving forward continues to
24 indicate that peak oil demand may have already been
25 reached. Demand for renewable energy will soon outpace

1 demand for fossil fuels, and oil prices will never recover
2 enough to support the economics of extreme fuels. To put
3 it bluntly, continuing to invest in fossil fuels is
4 financially irresponsible. And these losses were
5 predicted prior to the pandemic and could have been
6 avoided.

7 There's no longer any justification for gambling
8 with our public employees retirement savings on these
9 toxic investments. And I would like to submit some charts
10 to the Board to illustrate these losses. But I understand
11 that for some reason you decided not to take written
12 comments for this meeting. And I'd appreciate it if our
13 written comments would be accepted into the public record.

14 But I'd like someone to respond to that
15 particular request, please. Thank you.

16 CHAIRPERSON TAYLOR: Kelly, can -- can she mail
17 that to us?

18 CHIEF EXECUTIVE OFFICER FROST: Mr. Jacobs,
19 can --

20 STAKEHOLDER RELATIONS CHIEF FOX: Yes,
21 direction -- direction was given that they would be able
22 to provide their public comments as well.

23 CHAIRPERSON TAYLOR: In writing?

24 STAKEHOLDER RELATIONS CHIEF FOX: That's correct,
25 Madam Chair.

1 CHAIRPERSON TAYLOR: Okay. Then, yes.

2 Go ahead, Marcie. I think you were going to say
3 something.

4 CHIEF EXECUTIVE OFFICER FROST: Kelly took care
5 of it. Thank you.

6 CHAIRPERSON TAYLOR: All right. Thank you.

7 STAKEHOLDER RELATIONS CHIEF FOX: Okay. Madam
8 Chair, our next caller is Sarah Theiss.

9 MS. THEISS: Hi. My name is Sarah Theiss. I'm a
10 CalPERS retiree and Fossil Free California board member.

11 We also appreciate the enormous effort behind the
12 report and the wealth of information in it, including the
13 attempt to quantify the portfolio's risk and its
14 contribution to the remaining carbon budget. And this is
15 despite inadequate data, especially as to Scope 3. The
16 report names the problem. The portfolio's public asset
17 classes have a warming potential of 3.23 Celsius tracking
18 that of the wider world economy.

19 But we respectfully disagree that the strategy
20 laid out in the report is sufficient, given the speed And
21 enormity of the unfolding climate disaster. First, I
22 wondered whether the goals, based on the 2018 IPCC report,
23 are already outdated. Last November, the UN Environmental
24 Program Emissions Gap Report found that global emissions
25 have to fall by 7.6 percent each year from now till 2030

1 to stay within the 1.5 degree Celsius ceiling.

2 Second, as has been acknowledged, the pace of
3 data availability trails the rise of greenhouse gas
4 emissions. So waiting for better data seems highly
5 problematic especially as to Scope 3 emissions.

6 Third, as reported about one percent of the
7 portfolio is in climate change solutions versus about ten
8 percent in fossil fuel related businesses. Per the
9 report, most private equity assets in the report's
10 analysis won't be held beyond 2030, but that doesn't match
11 up to the need to cut emissions drastically in the next
12 ten years.

13 And finally, given this timeline, the planet's
14 timeline, we urge CalPERS to measure success in greenhouse
15 gas reductions rather than promises especially with fossil
16 fuel companies. Thank you.

17 And I'll have a public comment at the end as
18 well.

19 CHAIRPERSON TAYLOR: Thank you. Go ahead, Kelly.

20 STAKEHOLDER RELATIONS CHIEF FOX: Okay. Ms.
21 Theiss, I will put you back into the queue to speak on
22 Agenda Item 10.

23 All right. Madam Chair, we have Mr. Doug
24 Thompson.

25 MR. THOMPSON: Hi. Good afternoon. I'm also a

1 CalPERS member. I'm calling in today to urge Board
2 members to support divestment from the fossil fuel
3 industry. There are both risk-based and public policy
4 reasons for this. This sector has been losing value
5 especially as people reduce use of transportation fuels.

6 The steep drop in oil prices during the pandemic
7 is a sign of more uncertainty and volatility to come. We
8 see teleworking becoming the norm of many office workers
9 as an example of this shifting market.

10 The TCFD staff report does a nice job citing the
11 risks posed to CalPERS other holdings, fixed assets, like
12 real estate and infrastructure, and its potential
13 disruption of portfolio companies, supply chains, and
14 operations.

15 The report cites climate impacts on food
16 security, migration, water supply, other ecosystem
17 services that could bring heightened volatility to the
18 financial markets and harm economic growth.

19 As to matters of public policy, I have career
20 experience as related to our State's legislative and
21 executive direction going back now 15 to 20 years. Our
22 state has encouraged and effectively mandated, through
23 programs like Cap-and-Trade, reduced fossil fuel use. We
24 shouldn't be investing in markets that State policies are
25 working with good reason to effectively diminish.

1 I think you now have further legislative
2 direction under SB 185 requiring divestment from companies
3 earning half or more of the revenues from coal mining.

4 These policy directions are driven by concern for
5 public health and the environment because fossil fuel
6 combustion is the chief source of greenhouse gases, of
7 smog and small particles, which, as it happens, make our
8 lungs more susceptible to respiratory viruses.

9 Today, there's new urgency for racial justice to
10 be considered. U.S. EPA has data published in the
11 American Journal of Public Health revealing that race is
12 an even more profound predictor of particle exposure than
13 poverty. African Americans have a 54 percent greater
14 exposure to small particles than the general population.
15 Thus, fossil fuel combustion compromises their ability
16 to -- in particular to fight viruses. It could be one key
17 to the higher death rates they are experiencing, that the
18 Governor spoke of in his press conference today.

19 I don't want my retirement funds helping to prop
20 up a dying and volatile sector that's leaving a dangerous
21 unjust legacy for ourselves and future generations. I
22 hope you'll agree this is not a good retirement plan for
23 any of us and will move on to a serious discussion of
24 fossil fuel divestment.

25 Thank you.

1 CHAIRPERSON TAYLOR: Than you. Is there another
2 question or another commenter?

3 STAKEHOLDER RELATIONS CHIEF FOX: Yes, Madam
4 Chair. The last commenter on Item 8C Sheila Thorn.

5 MS. THORN: Hi. My name is Sheila Thorn, and I'm
6 a retired member of CFA and a CalPERS beneficiary
7 concerned about climate change.

8 I question the strategy of relying on your role
9 in the Climate Action 100+ group to address climate
10 change. Your revised addressing climate change report
11 considers one of the quote significant impacts of
12 engagement. The fact that Shell announced targets for
13 reductions every three to five years towards a goal of
14 shrinking its net carbon footprint by about half by 2050
15 and agreed to include its emissions among its supply and
16 demand chain, Scopes 1, 2, and 3.

17 One half of net carbon emissions by 2050 is far
18 from Paris goals and hardly something to boast about. But
19 the clincher is that according to an article in the
20 Financial Times, May 17th, 2020, a disclaimer at the end
21 of Shell's announcement states that Shell will not change
22 its strategy or capital deployment plans in line with the
23 announcement until society acts. What does Shell mean by
24 society acting?

25 Apparently, it does not mean shareholder

1 engagement. It is going ahead with a new project in
2 Nigeria to produce 30 million tons of liquefied natural
3 gas a year to meet what expects to be double demand by
4 2040.

5 Your report also lists as an accomplishment of
6 engagement Chevron's recent announced production goals for
7 greenhouse gas intensity in production. However, Chevron
8 plans to double its production in the Permian Basin over
9 the next five years and expects 900,000 barrels by 2023.
10 Thus, its overall emissions, and especially Scope 3
11 emissions, will rise.

12 Chevron also opposed a majority pass but
13 nonbinding resolution that it discloses its lobbying
14 expenditures on climate change and has refused to say if
15 and how it will implement it. LA Times, May 2020.

16 ExxonMobil in double speak like Chevron, promises
17 reduction of flaring and methane emissions while planning
18 to triple daily production in the Permian Basin. Overall,
19 your report admits that only nine percent of companies in
20 the Climate Action 100+ group have targets in line with
21 the Paris Agreement goals, and only eight percent have
22 lobbying activities that are aligned with necessary
23 climate action.

24 The big picture of Climate Action 100+, is that
25 the oil companies announced misleading targets of reduced

1 carbon intensity rather than absolute greenhouse gas
2 reductions, or set goals of net zero by 2050 without
3 outlining concrete interim steps. Oil firms tout
4 resolutions of Climate Action 100 to maintain support of
5 their investors, while actually making huge hydrocarbon
6 investments in a foolhardy expectation of increased demand
7 through 2040.

8 Is big oil -- big oil gaming us? It's time to
9 disinvest from these hopeless and financially failing
10 companies and invest in a sustainable and just green
11 future.

12 Thank you for listening to me.

13 CHAIRPERSON TAYLOR: Okay.

14 Kelly, was that it?

15 STAKEHOLDER RELATIONS CHIEF FOX: Madam Chair,
16 that concludes Item 8C. You'll have four callers on Item
17 10.

18 CHAIRPERSON TAYLOR: Great. Thank you. We will
19 move on to summary of committee direction, please.

20 I guess that's Mr. Meng.

21 CHIEF INVESTMENT OFFICER MENG: Madam Chair --
22 Yes. Madam Chair, I did not notice any Committee
23 direction for the open session.

24 CHAIRPERSON TAYLOR: Okay. I can't remember
25 either, so let's hope that's right.

1 CHIEF EXECUTIVE OFFICER FROST: Yeah. Ms.
2 Taylor, I would -- I would only note Ms. Olivares's
3 comment about looking at the TCFD report and potential
4 impacts to health care. And so we'll go back and take a
5 look at it. It won't make it in this report, but we'll
6 take a look at that.

7 CHAIRPERSON TAYLOR: Great idea. And thank you,
8 Ms. Olivares, for that recommendation.

9 All right. Thank you. We will move on to public
10 comment. So, Mr. Fox, we're back to you.

11 STAKEHOLDER RELATIONS CHIEF FOX: All right.
12 Madam Chair, our first caller is Mr. Al Darby.

13 MR. DARBY: Hello, Madam Chair and Board members.
14 Al Darby, RPEA president.

15 I was surprised to hear from Wilshire today that
16 the PERF is still overweight in non-U.S. stocks and
17 underweight in U.S. stocks. The U.S. market has
18 outperformed the non-U.S. market over the past three
19 years. How much did the PERF lose over the past three
20 years due to the U.S. market being overweight -- excuse
21 me, underweight by CalPERS, while the U.S. market was up
22 50 percent and outperforming the non-U.S. market.

23 This problem was identified two years ago. When
24 will something be evident that there's some change in the
25 allocation of U.S. and non-U.S. stocks to take advantage

1 of the better performance from U.S. stocks?

2 Thank you.

3 CHAIRPERSON TAYLOR: Thank you, Mr. Darby.

4 Next person, Mr. Fox.

5 STAKEHOLDER RELATIONS CHIEF FOX: Madam Chair,
6 the next caller is Glen Maloney.

7 MR. MALONEY: I'm here. Can you folks hear me?

8 STAKEHOLDER RELATIONS CHIEF FOX: Yes, sir.

9 MR. MALONEY: Okay. Thank you very much.

10 Madam Chair and Board members, thank you for
11 taking my call. I'm calling from Connecticut. My name is
12 Glen Maloney. I have worked at a hospital up here called
13 Rockville General Hospital for the past 19 years. I am an
14 AFT Connecticut member, local 5121 in the capacity of a
15 chief steward.

16 As I understand, CalPERS invests in companies
17 like Leonard Green. Leonard Green owns a company called
18 Prospect Medical Holdings, who acquired us four years ago.
19 Since that time, things haven't been that good. Two years
20 ago, we were promised to have a money match put back into
21 our pension plans and evidently that fell through. So
22 we've been nine years waiting for any company to give us
23 something towards our pension plan. And so far, we've
24 gotten nothing.

25 We currently -- our hospital, you know, after the

1 pandemic or during the pandemic, it is almost half closed.
2 We have no operating rooms are being used. We have no
3 ICU. We have no pre-operative department, no
4 post-operative. We have no elective surgeries going on at
5 our out hospital. We have no gift shop. We have no
6 patient wings. What we see is we are being slowly
7 strangled, if you want to put it that way. We're getting
8 no communication from Prospect Medical Holdings, as far as
9 anything in detailed writing that they will stand by. A
10 lot of vague memos. A lot of vague memos that we can't
11 hold them too.

12 We have employees who don't -- are not given
13 direction as far as whether they're going to have a job
14 next week. We have another department closing, presumably
15 on the 26th. So I read articles about Leonard Green
16 collecting millions of dollars in fees and dividends from
17 Prospect and we're sitting here not knowing if we're going
18 to have a hospital to go to in the not-too-distant future.

19 Every employee is struggling. There's -- there's
20 just a lot of stuff going on. And I ask if I was the one
21 loaning -- I know my time is almost up. If I was the one
22 loaning Leonard Green money.

23 STAKEHOLDER RELATIONS CHIEF FOX: Yes, sir.
24 Bring it to a close, please.

25 MR. MALONEY: I'm sorry?

1 CHAIRPERSON TAYLOR: Bring it to a close.

2 STAKEHOLDER RELATIONS CHIEF FOX: Bring it to a
3 close.

4 MR. MALONEY: I didn't quite hear. I'm sorry.
5 The time is up?

6 CHAIRPERSON TAYLOR: Yes, sir.

7 MR. MALONEY: Okay. Sorry. Thank you very much.

8 CHAIRPERSON TAYLOR: Thank you.

9 Mr. Fox, next person.

10 STAKEHOLDER RELATIONS CHIEF FOX: Madam Chair,
11 the next person, same subject, Kristen Ellis.

12 MS. ELLIS: Hello. I'll try not to reiterate
13 what Glen already said.

14 My name is Kristen Ellis. I'm an RN, employee of
15 RGH, Rockville Hospital, which is in ECHN at three
16 different places, Manchester, Woodlake, a nursing home,
17 and Rockville Hospital.

18 I want to thank you for taking our call tonight
19 and about -- my concerns about Prospect Medical Holdings.
20 I appreciate your concern for the bigger picture of
21 society and the environment, which I learned a lot today,
22 and holding companies accountable that you invest in.

23 We hoped that when we were purchased by them in
24 2016, that the financial backing and the business
25 expertise would help our hospital thrive. We've been

1 grossly disappointed, as Glen pointed out, and not only in
2 the lack of progress, but we are actually going backwards
3 as he described in areas especially that should be
4 profitable.

5 The lies that we've been told in not returning
6 our money match, after being promised verbally in a
7 meeting and in a letter, and closing our profitable and
8 shrinking our hospital, telling us things for once that
9 would -- just would not happen and then it does. It's
10 just like a bunch of lies, as well as not withholding a
11 negotiated three-way agreement, which just the -- and they
12 said the reason why they weren't withholding that
13 agreement was because it wasn't working for them. It
14 doesn't matter that it was signed and negotiated.

15 Our PPE was limited, as I realize it was
16 everywhere during the pandemic. But when I asked last
17 week if the COVID admissions were decreased and why we are
18 still sterilizing masks, I was told there's no answer for
19 me. I was told to ask in a meeting about that next week,
20 which was today, and I did. And I still haven't really
21 gotten an answer of why that's going on.

22 I feel they're using the pandemic to save money
23 and further agendas. Leonard Green, as Glen said, has
24 expected millions in dividends and fees, and they're
25 taking a lot of money that's needed for the -- from these

1 hospitals that need improvements in development of their
2 facilities, not in threat of losing jobs for employees.

3 I don't think that this is a conduct that you
4 would align yourselves with, in light of what I heard here
5 today. They also have recently denied staff a \$5 hazard
6 pay during this pandemic when lots of places have been --
7 even Dunkin Donuts and everything, Home Depot have been
8 giving their employees like \$3, \$5. Instead, they gave us
9 three percent --

10 CHAIRPERSON TAYLOR: I'm sorry. Your time is up.

11 MS. ELLIS: -- which came out to like \$0.30.

12 CHAIRPERSON TAYLOR: I'm sorry your time is up.

13 MS. ELLIS: I just want to thank you. Okay.

14 Sorry.

15 CHAIRPERSON TAYLOR: Thank you.

16 Mr. Fox, next person.

17 STAKEHOLDER RELATIONS CHIEF FOX: Madam Chair,
18 Sarah Theiss.

19 CHAIRPERSON TAYLOR: I'm sorry?

20 STAKEHOLDER RELATIONS CHIEF FOX: Sarah Theiss
21 will be talking again.

22 CHAIRPERSON TAYLOR: Okay. Thank you.

23 STAKEHOLDER RELATIONS CHIEF FOX: I can't get her
24 to connect now, so I'll skip to the next caller. The name
25 is David and did not provide his last name.

1 CHAIRPERSON TAYLOR: Okay. Thank you.

2 MR. SOARES: I'm sorry, is that -- I did provide
3 my last name. I'm David Soares. I'm an annuitant retired
4 after 32 years as a Prosecutor in Silicon Valley. I'm
5 currently an Assistant Area Director with the California
6 Retired Public Employees Association.

7 And my public comment is to express my concern
8 about Chief Investment Officer Meng conducting his
9 business in the press rather than during this meeting.
10 And there's already been some reporting beyond that in the
11 Financial Times of London and in Bloomberg.

12 And I'm particularly concerned because Mr. Meng
13 explained to Bloomberg yesterday June 15th that the
14 likelihood of success at the strategy to apply leverage --
15 the 20 percent leverage to the fund is as follows, and I
16 quote, "Even if Meng succeeds in allocating more money to
17 private assets and adding leverage, he said CalPERS's
18 chances of hitting its seven percent target return over a
19 decade will still be less than 50/50". That's the quote
20 from Bloomberg.

21 In other words, adding risk of -- not just
22 missing return targets, but adding the risk of actually
23 losing trust assets to creditor failure and bankruptcy
24 during the coming global pandemic downturn has less
25 likelihood of success than guessing when a coin flip will

1 turn up heads.

2 Even under the modern interpretation of the law
3 of trusts and fiduciary duty, the prudent investor rule
4 requires that a fiduciary avoid speculation and waste of
5 trust assets. Speculation is defined as purchasing risky
6 investments that present the possibility of large profits,
7 but also pose a higher-than-average probability of loss.
8 A bet that has less likelihood of success than a coin flip
9 is speculative, per se.

10 Given that this afternoon's asset liability
11 management mid-cycle review presentation indicates that no
12 asset class is expected to return anywhere near the seven
13 percent ten-year expected return, except possibly private
14 equity, which just barely will get over the line, Mr.
15 Meng's leverage strategy is speculative in nature, and by
16 its very nature is an inappropriate strategy for a
17 fiduciary charged with protecting Public Trust assets to
18 pursue.

19 If the Board President of CalPERS and the Chief
20 Executive Officer had political relationships with the
21 Governor, and the Legislature, and the leadership of our
22 local agencies, a better strategy in this return
23 environment would be to work on coming up with a plan for
24 deferring costs relating to lower returns further down the
25 road, rather than engaging in speculation unlawfully with

1 trust assets.

2 Thank you.

3 CHAIRPERSON TAYLOR: Thank you, Mr. Soares.

4 Kelly, did Sarah get on or not?

5 STAKEHOLDER RELATIONS CHIEF FOX: Yes. She has
6 called back. I'm going to try to enter her in.

7 CHAIRPERSON TAYLOR: Okay.

8 MS. THEISS: Hi. This is Sarah Theiss again, a
9 CalPERS retiree and board member of Fossil Free
10 California.

11 Pursuant to SB 185, in 2015, CalPERS began the
12 process of divesting from thermal coal companies that
13 generated 50 percent or more of their revenue from mining
14 thermal coal. CalPERS remained invested in three
15 companies after each informed CalPERS that it was
16 transitioning its business model to clean energy
17 generation.

18 As we wrote in a letter to you that you got on
19 Friday, these companies have not kept their promises.
20 Adaro Energy has steadily increased coal output and
21 revenues. XRO's coal mines recorded all-time production
22 highs last year. And despite being a diversified company,
23 Bamboo's coal revenue and production have remained steady.

24 While these companies may be using a bit less
25 energy these days to produce coal, or otherwise playing

1 around the edges, they seem to remain deeply committed to
2 coal as a primary or major source of revenue.

3 We hope that the Board will ask staff to look at
4 these companies, and if, as it appears to us, they have
5 not been transitioning to cleaner energy generation, then
6 it's time to remove them from CalPERS portfolio. Please
7 don't reward their failure to make significant progress in
8 five years with more years of engagement.

9 And then second, we also looked at CalPERS coal
10 holdings below the 50 percent revenue threshold through a
11 database run by coalexit.org. Companies in that database
12 make 30 percent or more of their revenue from coal or meet
13 other criteria. CalPERS total investment in these
14 companies is in the seven to eight billion dollar range.
15 While we don't have access to data on the percentage of
16 these investments that are specifically in coal, the
17 presence of the companies on the coalexit database
18 demonstrates that these -- these are actually major coal
19 holdings for CalPERS.

20 Following the current crash, it's predicted that
21 the coal industry will never recover, even with the
22 continued buildout in India and elsewhere, and it's time
23 for CalPERS to finally get out of coal.

24 Thank you so much for your attention so late in
25 the day.

1 CHAIRPERSON TAYLOR: Thank you very much.

2 Mr. Fox, is that the end of our comments?

3 STAKEHOLDER RELATIONS CHIEF FOX: We have one
4 more commenter. Mr. Ken Lee.

5 MR. LEE: Hi. Yeah. I just want to make a quick
6 comment on -- as a general comment on the investment
7 strategy. Given the size of CalPERS, it is -- I think
8 this is not in position to cherry pick, which is the ESG
9 investment or for that matter is any other investment
10 strategy. It would be like an elephant in the room trying
11 to pick and choose where you stand. So the result would
12 be failing to meet return expectation.

13 So if this is a 50 billion hedge fund, then it's
14 perfectly okay to pick and choose. But if this is a 300
15 billion fund, then they just don't have the luxury to
16 choose.

17 And that's all I have to say. Thank you.

18 CHAIRPERSON TAYLOR: All right. Thank you very
19 much.

20 I don't know what's going on.

21 STAKEHOLDER RELATIONS CHIEF FOX: Madam Chair,
22 that concludes -- that concludes the public comment.

23 CHAIRPERSON TAYLOR: Great. Great. Thank you
24 very much.

25 So that's the end of our agenda for the

1 Investment Committee open session. I am adjourning our
2 committee at 6 -- 5:45. And we'll adjourn tomorrow
3 morning. I don't know what time.

4 Rob.

5 CHIEF EXECUTIVE OFFICER FROST: Ms. Taylor, we
6 begin at 8:00 a.m. with Pension and Health Benefits
7 Committee.

8 CHAIRPERSON TAYLOR: All right. Great, 8:00 a.m.
9 Thank you so much. We will adjourn for now. Thank you
10 very much.

11 (Thereupon California Public Employees'
12 Retirement System, Investment Committee
13 meeting open session adjourned at 5:46 p.m.)
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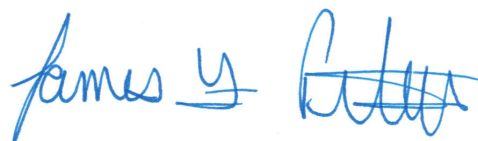
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I, JAMES F. PETERS, a Certified Shorthand Reporter of the State of California, do hereby certify:

That I am a disinterested person herein; that the foregoing California Public Employees' Retirement System, Board of Administration, Investment Committee open session meeting was reported in shorthand by me, James F. Peters, a Certified Shorthand Reporter of the State of California, and was thereafter transcribed, under my direction, by computer-assisted transcription;

I further certify that I am not of counsel or attorney for any of the parties to said meeting nor in any way interested in the outcome of said meeting.

IN WITNESS WHEREOF, I have hereunto set my hand this 17th day of June, 2020.



JAMES F. PETERS, CSR
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