

1 comments or questions from the Board.

2 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Hey,
3 Scott, I'm sorry to jump in.

4 I would like to -- I think it would probably make
5 sense to hear what Wilshire has to say.

6 So Scott says it's very likely that we'll be back
7 with Portfolio A subject to hearing our assumptions either
8 validated or in terms of the risk at tolerance and the
9 like.

10 But I thought it made sense maybe to hear from
11 Wilshire, and then we can take questions, if that works.

12 CHAIRPERSON MILLER: Yeah.

13 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

14 Yeah, so maybe Tom Toth and Steve Foresti can
15 join us at the dais real quick.

16 MR. FORESTI: Good morning. Thanks.

17 I guess we'll -- I'll spend a couple of minutes
18 just talking about process. And then maybe just summarize
19 what I think are some of the key points that you just
20 heard.

21 So first on process, we've been engaged with the
22 team throughout this process, in fact having weekly
23 catch-up calls where we've been providing our feedback and
24 just being integrated to the process.

25 So I'll just concur, we're one of the 15 -- I

1 believe we're one of the 15. We participated in the
2 survey, in that asset class assumption survey - so part of
3 that - and just specifically looking at our views on
4 capital markets going forward. Entirely consistent with
5 what you saw, which is to say, as yields have come up in
6 the past couple of years, these relationships between
7 asset classes have changed in a, you know, pretty dramatic
8 and fundamental way and have shifted the competitiveness
9 of different asset classes into some of the comments
10 you've heard today. Fixed income - where two years ago
11 and we were looking at fixed income, it was a very
12 challenging asset class. Indeed it felt like it lost --
13 that asset class had lost a lot of its utility to
14 institutional portfolios - has in large part been
15 resurrected by the improvement in yields, which passed
16 through to investor in terms of income and expected
17 return.

18 So our view of the world is very similar to what
19 those survey results show.

20 Now I want to shake out a couple of I think what
21 are the really critical comments that Sterling and others
22 shared this this morning, and that is around process. So
23 two main points.

24 If you think about that shift in the world and
25 you're at a mid-cycle asset allocation review, I think

1 your default prior coming into it would be, okay, well, if
2 fixed income has become more competitive, you know, all
3 else equal, I would expect to see, you know, a shift
4 potentially, you know, towards fixed income and away
5 potentially from some of these other assets.

6 Sterling made the point about constraints.
7 There's a lot of inputs that change through a process -
8 capital market assumptions, the actuarial side in terms of
9 what the objectives are. But the constraints in the
10 process are also an important part of that process. And
11 for years, CalPERS has had a desire for more private
12 market exposure than collectively staff and others have
13 felt was possible just from a capacity and a processing
14 and putting the commitments into deploying that capital.

15 You've heard today a bit of a change in
16 perspective on that view, and there's a variety of reasons
17 for that. But the point is, in addition to the capital
18 market assumptions, you think about this process you're
19 going through now as having slightly different
20 constraints, being a bit less constrained on these private
21 market assets. And Dan early this morning in his comments
22 talked about this overarching commitment to private
23 markets. So I think consistent with those constraint
24 changes and that overarching desire in understanding the
25 value of private market assets, that's one thing that may

1 differ a bit from what that prior would be coming in: Oh,
2 I'm going to see -- you know, going to see this big shift
3 towards fixed income.

4 Point number 2 that Sterling made that I'd like
5 to just kind of underscore because I think it's an
6 important one, is as you look at optimal portfolios and
7 you try to identify different candidate portfolios, you
8 have to anchor on something. And so what Sterling
9 suggested on anchoring on was the expressed risk from the
10 full cycle back in 2021, which makes perfect sense. I
11 think it makes perfect sense as you come through a
12 mid-cycle review. I would say as we come around in a
13 couple of years to the full-cycle review, that would be
14 something that I think makes sense to explore further.
15 Because, you know, anchoring on a decision made two years
16 ago and then thinking about that in perpetuity going
17 forward as being always the right risk level to anchor to
18 probably doesn't make sense over the very, very long run;
19 but I think in a mid-cycle review it makes sense.

20 So I'll pause there. Happy to take any other
21 questions. And if my colleague Tom wants to add anything,
22 I'd welcome that as well.

23 CHAIRPERSON MILLER: Okay. I've got questions
24 from -- we'll start with Director Pacheco.

25 COMMITTEE MEMBER PACHECO: Yes, Thank you. Thank

1 you, Chairman Miller.

2 Again, thank you very much for this presentation
3 on the ALM process, and, Wilshire, for your comments.

4 I'd like to actually go back on that capacity
5 question and -- so staff mentioned back in 2021 that
6 private assets was constrained because of our limited
7 capacity to originate private debt.

8 Now from what I've read, it seems like our
9 capacity has increased to originate private assets.

10 You know, what has changed specifically in that
11 two-year horizon. And you guys can elaborate on that.

12 Thank you.

13 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

14 Maybe I'll start and then I'll let others jump
15 in. I guess a couple of things. One thing - and we're
16 going to talk about some of this more in closed session -
17 but the way that we are deploying in private assets as
18 specifically through the lens of co-investment has really
19 changed with Anton Orlich and the team in the way that
20 they're approaching that body of work. And so we'll talk
21 about that in closed session because we do think there's
22 some IP there.

23 IP meaning intellectual property.

24 The other thing is I do think that we have
25 actually seen some traction. We've seen assets flow sort

1 of in the global economy from the public markets to the
2 private markets, and we've seen specifically traction in
3 both private equity and private debt. So that's, I would
4 say, would be another one.

5 The last one I would share - and this of course
6 is an unfortunate one - but as the denominator of the
7 portfolio came down a little bit with the drawdown that we
8 experienced in the public markets, you also do see the
9 weights go up. So I would say that's sort of the third
10 factor.

11 But, again, we can dig more into all of those.
12 But those are kind of the main -- I would say the main
13 reasons for what you're seeing is is a -- and, you know,
14 as I say, we will likely be back with Portfolio A. What
15 you'll see in Portfolio A is: Number 1, an increase in
16 private equity at the expense of public equity; number 2,
17 an increase in private debt at the expense of public debt;
18 and then, number 3, of a slight lead into private -- I'm
19 sorry -- into fixed income, because, as I said, what
20 you're seeing is, for some reason, more creative assets in
21 the fixed income space, and then an increased
22 liquification of the public markets. So that as you add
23 private assets, and as we add leverage, we need the public
24 assets to be more liquid because they become a very
25 critical liquidity provider.

1 COMMITTEE MEMBER PACHECO: Thank you for that
2 question.

3 Just one more question on the candidate
4 portfolio. Now, you mentioned that you had selected 15
5 managers, I guess, with -- to assess the candidate
6 portfolios on page 12 of 19.

7 Was that selected by randomization or was
8 there -- what was the methodology around that, to mitigate
9 any inherent bias?

10 MANAGING INVESTMENT DIRECTOR GUNN: So it's just
11 been a growing survey over time. So we've just been
12 adding more and more manage -- so it's not entirely
13 random. There's an element of familiarity, who can
14 recall, who can we talk to, who will commit to regularly
15 giving us this kind of information. But it is our intent
16 to grow this survey and to be more prob --

17 COMMITTEE MEMBER PACHECO: So we move -- so the
18 increase -- the N would increase then over time.

19 MANAGING INVESTMENT DIRECTOR GUNN: Yes.

20 COMMITTEE MEMBER PACHECO: All right. Very good
21 then.

22 Thank you very much.

23 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: And
24 it is worth mentioning that, yes, Wilshire is one of those
25 survey respondents for us.

1 COMMITTEE MEMBER PACHECO: Yes. Thank you.
2 Thank you very much.

3 CHAIRPERSON MILLER: Okay. President Taylor.

4 VICE CHAIRPERSON TAYLOR: Yes. Thank you.

5 So I guess my question is why A? Because it has
6 the highest risk. Right? It has -- it raises the rate of
7 Return to 7. And then it lowers our fixed income of which
8 we're doing very well. So that's why I was --

9 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: What
10 we did -- can we get slide 12 back up, please, which is
11 page 304 out of 420 in the packet.

12 Thank you.

13 Sorry, Sterling. Go ahead.

14 MANAGING INVESTMENT DIRECTOR GUNN: So that's
15 the -- the risk is actually the same as the current
16 portfolio. So if you were to look at --

17 VICE CHAIRPERSON TAYLOR: True.

18 MANAGING INVESTMENT DIRECTOR GUNN: -- current
19 policy, 21.5 percent drawdown. Now Policy A was designed
20 to have the same level of risk. It says 21.4. That's
21 just a statistical thing because of the way we actually --
22 the tools that we use. So they have the same level of
23 risk. So then the -- what comes with that, it just
24 happens a modest increase in the projected return. But
25 it's designed fundamentally to have the same risk that was

1 approved two years ago.

2 VICE CHAIRPERSON TAYLOR: Okay. So it's the
3 return -- the modest increase in the return that we're
4 looking at?

5 MANAGING INVESTMENT DIRECTOR GUNN: Uh-huh.

6 VICE CHAIRPERSON TAYLOR: Because why -- and why
7 I ask that is, so we're increasing our deployment of
8 private equity but we're decreasing fixed -- yeah, fixed
9 income?

10 MANAGING INVESTMENT DIRECTOR GUNN: Uh-huh.

11 VICE CHAIRPERSON TAYLOR: But I thought we were
12 doing really well on fixed income and it was -- I
13 understand it with the lagging returns private equity
14 right now isn't doing all that well.

15 MANAGING INVESTMENT DIRECTOR GUNN: Right. So
16 this is a long-term portfolio --

17 VICE CHAIRPERSON TAYLOR: Right

18 MANAGING INVESTMENT DIRECTOR GUNN: -- first of
19 all.

20 Dan also mentioned a few features though. All
21 else being the same, we would have had more fixed income.
22 But we do think we're a growth oriented portfolio. We do
23 want more equity in the portfolio. We think private
24 equity is the more attractive part of the equity space.
25 So we're increasing that allocation.

1 In addition, we're increasing the private debt.
2 Dan mentioned that does sort of then chip away at the
3 public fixed income.

4 So there's a slight change in the fixed income,
5 not because its circumstances aren't better now than they
6 we're two years ago but because of all the other moving
7 parts in the portfolio.

8 VICE CHAIRPERSON TAYLOR: So it's just --

9 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: And
10 I think the -- well, here's what I would add -- quote, I
11 would add to that, is that total equity will go down a
12 little bit. So if you look at current policy, it's 42
13 percent public equity and 13 percent private equity. And
14 we view there is some sort of public/private market
15 equivalent there. So that's a total of -- what is that?
16 55 percent, right?

17 You move on to Portfolio A, 37 and 17. So that's
18 54 percent, right. So it comes down by a percent.

19 Then the opposite you're seeing happen in fixed
20 income, right, that fixed income and private debt, again
21 they're trying to public and private corollaries to one
22 another. The total is 35. When you go to 28 and 8, the
23 total is 36. So you'll see fixed in -- the overall public
24 and private combination goes slightly down in public
25 equity, slightly up in fixed income, though very modest;

1 and this goes back to again what Steve from Wilshire was
2 saying, we think modest changes are appropriate in
3 mid-cycle review, with potentially larger changes in the
4 full-blown every-four-year review.

5 VICE CHAIRPERSON TAYLOR: So and this is -- I
6 will say this is the first time we've ever done this.
7 So -- since I've been here, I should say.

8 So I question why we need to do this. But before
9 that question gets answered, the other question I had is,
10 what's the long term? So fixed income has had bad
11 returns, right, for a long time, it seems. And then we've
12 had the last couple years of really good returns. What is
13 different on the driving of that? And then, what's the
14 long-term view of those returns still giving us a good
15 profile of returns?

16 Anybody.

17 MANAGING INVESTMENT DIRECTOR GUNN: So in the
18 CMAs that we showed earlier, those are the long-term
19 projected returns.

20 VICE CHAIRPERSON TAYLOR: On fixed income?

21 MANAGING INVESTMENT DIRECTOR GUNN: On fixed
22 income. For all of the asset classes. That's on page 8
23 of these materials.

24 VICE CHAIRPERSON TAYLOR: Page 8, yeah.

25 MANAGING INVESTMENT DIRECTOR GUNN: So you can

1 see this is significant improvement in fixed income
2 returns compared to what people thought two years ago.

3 VICE CHAIRPERSON TAYLOR: Right.

4 MANAGING INVESTMENT DIRECTOR GUNN: Now you could
5 ask about why they thought that two years ago, but the
6 circumstances were pretty rough, right? We were still
7 coming into the GFC. Fed policy was keeping rates
8 incredibly low. And that's changed. In the last two
9 years we've had a number of events that have led to
10 inflation, that have led to the fed increase in short-term
11 rates. And the whole curve was adopted to that -- that
12 world view. And that's closer to what we would expect in
13 the long run.

14 So those rates are I think long-run rates.

15 VICE CHAIRPERSON TAYLOR: Okay. Okay. And
16 then -- now I already forgot my second question.

17 Why now? I think was my second question. Why
18 are we doing this now? It seems like -- again it seems a
19 little new for us to do this. So why now?

20 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

21 Maybe I'll start it now, Sterling. Then others
22 jump in.

23 I think the main reason is because what I
24 mentioned in my opening comments that we're starting to
25 bump up against the bands and the private markets, right.

1 So that, you know, when we adopted the candidate -- the
2 portfolio, we also had an implementation plan. And that
3 implementation plan was to graduate peace into private
4 assets again. That's what we thought we could achieve in
5 the deployment. We have achieved that faster, which means
6 that right now we are -- we can be ± 5 percent let's say in
7 private equity. We're overweight about 4 percent. And so
8 if we got another drawdown, we would actually breach the
9 band.

10 What we really want to do is just stay consistent
11 and we -- you know, we've talked about this several times
12 and I know Ms. Middleton asked this question several
13 times. I would say the biggest mistake that we have --
14 that arguably we've made in my entire tenure here but
15 certainly we've made coming out of the financial crisis,
16 was that we stopped committing to private equity and those
17 vintages after 2008, '9, '10, '11, with conservative
18 assumptions we believe that cost us something like \$11
19 billion. We don't want to recommit that mistake. What we
20 really want to do is just stay consistent in our
21 deployment. So while this feels like a change, and Anton
22 can talk to this again when we get into closed session,
23 our allocation budget is not changing. Really what we're
24 trying to do in private equity is continue to commit the
25 same amount of money year after year so that we can try to

1 not make that same mistake.

2 VICE CHAIRPERSON TAYLOR: Okay. And so here's
3 another question I have then. Sorry about this, guys.

4 So if we are bumping up against the band, right,
5 are we measuring this -- using the right measurement to
6 measure this, number one? Should we use a percentage,
7 should we use a dollar amount? But additionally, since
8 most of this deployment is coming within the last couple
9 of years, how do we stop bumping up against the limit
10 because we're still need the deploy but we don't have
11 any -- that much old stuff so that we could -- you know,
12 that gets liquidate and then we can do -- and keep at a
13 certain either dollar figure or percentage, right. So it
14 seems to me that we're -- in my head, the way my math
15 works - and I'm not math person - but that seems to me
16 that that would end up with us continuing to deploy and
17 then raising the cap because we don't have enough to sell
18 to keep us at a -- either -- a solid percentage that we
19 agree on, the 17 percent, or a dollar figure.

20 So there's two questions in that. Number one:
21 Why did we use percentage? Because maybe that could be
22 the problem. And could we use a dollar figure or
23 something else to measure? And then how do we do this
24 when this is, you know, 10-year investments, and almost
25 everything we have right now is new?

1 MANAGING INVESTMENT DIRECTOR GUNN: So this is
2 the first question. We started our analysis with dollars
3 so we could work very closely with the asset class. And
4 it is all about dollars. They're deploying dollars.
5 That's what managers get. They get dollars; they don't
6 get percentages.

7 It falls on total portfolio. Then to try to
8 interpret that and understand the range of outcomes in
9 terms of that percentage. And that's something I'll also
10 talk about a little bit later on.

11 The second part is capital goes out but it also
12 comes back.

13 VICE CHAIRPERSON TAYLOR: Right.

14 MANAGING INVESTMENT DIRECTOR GUNN: And all of
15 that work is focused on what the commitments are, and then
16 what kind of behaviors do we get? And if you make a
17 commitment today when it's the capital call, then once the
18 capital is called, when does it come back? So a lot of
19 work goes into try to understand that. And again, no
20 certainty in that work, but it's a lot of statistical
21 work.

22 So we will see an increase in the dollars in the
23 portfolio. And a lot of our conversation then, what's the
24 right pacing? On average, what's the right pacing that
25 the team should commit to in terms of dollars? And then

1 we interpret that and say, "That gets to a reasonable
2 outcome as a percentage."

3 So both those pieces.

4 Sorry, Dan.

5 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: No,
6 I agree with everything you've said.

7 I would say, Ms. Taylor, you're picking at
8 something that our senior investment team has spent a lot
9 of time picking at, because -- and Sterling alluded to
10 what we have -- our pacing models. And we have pacing
11 models across private assets, and what they do is they
12 look at what the portfolio and what the ratio of sort of
13 fund investments and co-investments, it looks like. And
14 then what we expect from that as we continue to commit
15 both in terms of what's going into the ground and what's
16 coming out. And like I said, there are a lot of
17 assumptions to those models. They're models. They're
18 very informative, and that's what a lot of the debate has
19 been. We do think that where we land with those pacing
20 models, that that sort of Portfolio A, lifting private
21 equity from 13 percent to 17 and lifting private debt from
22 5 to 8, is the right way to do our pacing. We can still
23 handle the liquidity and we'll lean into the more
24 attractive asset classes.

25 VICE CHAIRPERSON TAYLOR: Doesn't answer though

1 the question I was asking, which is how do we avoid having
2 to come back in two years and increase this cap again?
3 That's what I'm thinking that we're going go, because I --
4 I see -- you guys gave us a long-term look at the economy,
5 which is looking like it's slowing, right. We're not
6 going to have, it sounds like -- I mean we could -- but
7 we're not going to have these great returns that we had
8 before the Great Financial Crisis. I think we had one
9 year or two years of really, really good returns from 2008
10 to '17 or something like that, or '20 or whatever it was.

11 So how do we -- how do we stop that where we're
12 going to end up having -- are we going to keep allocating
13 until we're at 30 percent of the fund its private markets.

14 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: I
15 would say it's probably now -- I would say right now we're
16 at 32 percent private markets in the Total Fund. Right
17 now that's private equity, private debt --

18 VICE CHAIRPERSON TAYLOR: Okay. So let me say
19 private equity then.

20 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

21 Okay. Private equity.

22 A 30 percent allocation to private equity would
23 be a very large allocation to private equity. I can't say
24 that that's not something that -- I would not rule that
25 out, because I do think again if you look at the capital

1 market assumptions, private equity is our highest
2 returning asset class and it's got all those really --
3 those really attractive characteristics.

4 On our current pace we think it'll get us to
5 about that 17 percent. And because we think it'll get us
6 to about that 17 percent, that's why that's what we're
7 recommending this time. But it is very possible that in
8 two years' time we would look to raise that again as we
9 continue to allocate them that way.

10 MANAGING INVESTMENT DIRECTOR GUNN: If I could
11 just add to that.

12 All these pacing conversations lead to very
13 healthy conversations. Dan mentioned earlier, I mentioned
14 earlier, the private assets, it's about doing better than
15 the public equivalents. So as an ongoing conversation,
16 even though these are long-term projections, that is this
17 asset class attractive relative to the public equity
18 market, for example? If it is, then the allocation will
19 likely increase.

20 However, at the same time we have to manage
21 liquidity, and that's where there's the pushback. So
22 striking the right balance -- and we do an awful lot of
23 work interpreting the pacing models and asking again the
24 stress tests on the liquidity side, do we have a balance
25 that we know we have lots of liquidity both now and in the

1 future based on the models that we're using to better
2 understand the private assets?

3 Fundamentally though it's trying to strike a
4 balance of maximizing the value.

5 So might we get to a 30 percent? If the relative
6 merits were there and if we had the liquidity to sustain
7 that over 20 or 30 years, that's something that we would
8 contemplate. Obviously we'd have to come here as part of
9 the SAA to make that proposal. We're not there today.
10 Might we get there in the future? It's possible again,
11 but based on the relative merits and our liquidity
12 situation.

13 VICE CHAIRPERSON TAYLOR: Okay. I'm going to end
14 with, I'm going to ask you guys to -- and I appreciate
15 that.

16 First of all, private equity's hard to benchmark,
17 right? So it's hard to say that we're going to do much
18 better with it or more of it. But also, for the last few
19 years it has not been all that great. So -- but I also
20 don't want -- I don't want us to stop. I understand that
21 was our big mistake. But I don't want us to go the other
22 way either. I don't want to overinvest in an asset class
23 that is very illiquid but at the same time it is showing
24 signs of weakness over the last five years or so,
25 comparatively speaking, to what it was. I mean the

1 returns used to be in the teens, right -- 20s and teens.
2 We're down in the single digit returns now most of the
3 time. Sometimes up in the 11s, 12s, 13s. But I just -- I
4 caution you guys -- are we going some place where I'm not
5 supposed to go on this conversation?

6 Okay. I caution you guys that we don't overreact
7 and do too much.

8 Thank you.

9 CHAIRPERSON MILLER: Next we have Director
10 Rubalcava.

11 COMMITTEE MEMBER RUBALCAVA: Thank you, Mr.
12 Chair.

13 I appreciate the presentation. One thing I
14 appreciate about CalPERS, it has a long-term horizon. And
15 one thing that also drives that because there's a
16 long-term horizon, we always look at actuarial
17 assumptions. And as Scott pointed out, there's no
18 recommendation to make any change in the long-term assu --
19 in the assumptions. And those are always driven by
20 experience studies. And there's always been like a
21 concept we don't tweak them; you look -- we wait for the
22 experience study.

23 So before I get to the experience-study question,
24 I want to talk about the capital market assumptions, as
25 people have been focused on this page 8 of 19, fixed

1 income returns have increased more than were expected.
2 And at the same time, even though private equity still
3 continues to be very attractive, I mean they still have
4 higher returns, it's a lot lower than previously expected
5 two years ago. So it seems counterintuitive, if it's
6 lower expectation, why would we say we should increase our
7 allocation as private equity? It seems counterintuitive
8 to me. If somebody could speak to that.

9 And then I'll go to the actuarial question.

10 Thank you.

11 MANAGING INVESTMENT DIRECTOR GUNN: So we'd be
12 happy to speak to that.

13 That was the conversation about constraints. So
14 two years ago we just didn't think we were capable of
15 doing more. Frankly, if we had the capabilities, then we
16 probably would have actually asked for a higher allocation
17 two years ago than we did this year. If there were no
18 constraints, then it's possible, you know, the allocation
19 would have maybe stayed the same. But what we were saying
20 this year is still -- the highest returning asset class is
21 still attractive, and we would like to get closer to the
22 levels that we would have liked to have done in the first
23 place.

24 So basically we lacked seeing the constraints.
25 That's the result of the increase in the allocation.

1 Still justified by the returns.

2 COMMITTEE MEMBER RUBALCAVA: Okay.

3 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: I'm
4 not sure if that makes sense, Mr. Rubalcava. But let me
5 try saying it another way, because it is counter -- no, I
6 agree, it's counterintuitive.

7 If we didn't have a constraint on private equity
8 in 2021, the optimizer would have allocated something like
9 25 or 30 percent to private equity. Because we didn't
10 think we could deploy that fast, we capped it at 13
11 percent, and the optimizer went right there.

12 Now we just raised -- and I could show you --
13 because we found that we can deploy faster. Again, if you
14 run it in an unconstrained way, it will still allocate
15 into the 20s. But when you remove that constraint or you
16 move it up to 17 percent, it goes there.

17 So it is unequivocally counterintuitive. And I
18 think we all looked at that question, "Really, that's
19 counterintuitive. The returns have come down and yet our
20 allocation is going up." But it really is as Sterling
21 said, it's a function of the fact that we have found that
22 we can go faster, so we've raised the constraint and have
23 optimized, it allocates right to the constraint.

24 COMMITTEE MEMBER RUBALCAVA: So I guess it drives
25 another question before I get to the actuarial.

1 So do we need to adjust anything in the
2 investment policy that we can make a change in the
3 mid-cycle instead of waiting for the regular process?

4 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

5 That's what'll change will be in the investment.
6 Right now, the Total Fund Policy states that private
7 equity is allocated at 13 percent. But remember that we
8 talked in closed session with this Board on the
9 implementation plan. So the policy level is actually a
10 little bit lower than that. This update, if we do this in
11 March - and again, remember, this is an information item
12 and we really -- we want to hear all of this feedback and
13 these questions and all of these -- you know, all of this
14 discussion. But then we would be back -- if there is
15 appetite to do what we would recommend given what we know
16 of the risk appetite, our collective risk appetite, we
17 would be back in March with an item that increases private
18 equity and private debt, reduces public equity and public
19 credit, and then slightly leans into fixed income. And
20 then that would drive an update to the Total Fund Policy
21 for those allocations.

22 COMMITTEE MEMBER RUBALCAVA: Okay. Let me go
23 back to my actuarial, I like the term you use, "anchor."
24 That's what I understand coming to this Board, the
25 actuarial stuff more than the investment side. And

1 there's like a long-range patience kind of thing. And I'm
2 sensitive to what was said, the term I like was the lost
3 decade, you know. But I think that reflected I think a
4 reactive responding to the immediate economic conditions
5 as opposed to a steady roadmap, so to speak. And so I
6 have a question on the actuarial assumptions.

7 The timeline, page 3, November -- November 2020
8 we have the experience study. In June of 2025, there will
9 be a look at the economic assumptions.

10 When do we -- and I know in November 2025
11 we'll -- hope -- we'll look at the experience study. But
12 when -- when are the demographic assumptions presented to
13 the Board? We have to wait till November 2025?

14 CHIEF ACTUARY TERANDO: Yeah, that's -- we
15 normally come to the Board in November and present the
16 demographic assumptions. What we do is during 2025 while
17 the, you know, various portfolios and new CMAs are being
18 factored in, we are reviewing the experience we've had
19 over the last four years, comparing it to what we had over
20 the last 20 years, and developing new assumptions on the
21 demographic side. And we kind of bring those forward and
22 present those to the Board in November.

23 We do have -- in September, I think what we do is
24 we bring a draft of the results of the experience study in
25 September so the Board has a chance to see our findings,

1 and then we come back in November for final approval.
2 It's similar to the portfolios presented, where the Board
3 sees everything in September and then they have several
4 months to look over the material before making any
5 decisions on it.

6 So it's like -- like a first -- you can think
7 about it as first reading in September, and then a
8 final -- or possibly approval in November.

9 COMMITTEE MEMBER RUBALCAVA: Yeah, I'm very
10 cognizant that actuarial assumptions impact contribution
11 rates. So the experience study it would also talk about
12 the economic assumptions. So I feel more comfortable
13 seeing both together.

14 CHIEF ACTUARY TERANDO: Yeah, and they do come
15 together. In June I think what happens is we come back --
16 we were talking about capital market assumptions, which is
17 similar to the survey results that Sterling presented
18 earlier this morning, where you saw on the survey results
19 and the various ranges. That's -- that will be the CMA's
20 discussions. And then in terms of economic discussions,
21 that's mostly on inflation.

22 And when you talk about -- we don't really get
23 into any demographic stuff. You know, if we have
24 preliminary demographic materials we can possibly bring
25 some of that -- or, yeah, preliminary findings in June as

1 well so the Board can at least get a flavor for what's
2 going on and what we're seeing. I think we could do that.

3 COMMITTEE MEMBER RUBALCAVA: Yeah, because I
4 think I saw something or read something where -- something
5 about the retirement trends are changing, shifting. And I
6 know that how much income comes into the system, it's also
7 employer and employee contribution, so that would impact
8 something I think of how much money we have to invest.

9 CHIEF ACTUARY TERANDO: I think -- you know, we
10 saw a spike in retirement rates with COVID but now they've
11 dropped down. And so when we -- when we -- in two years
12 we'll have a, you know, four-year period to kind of review
13 the retirements and see, you know, both what we saw during
14 COVID and what we saw post-COVID and see where we are. So
15 are we kind of like -- when you factor all four of those
16 years, are we back to kind of like back to normal in terms
17 of what we're seeing; and when you look over that
18 four-year period you just have a spike and then the drop
19 and then we're just back to where we were before. And so,
20 you know, that will be a lot of what we'll be looking at
21 when we do an analysis in a couple years.

22 COMMITTEE MEMBER RUBALCAVA: Yeah. You know, one
23 thing, when I first came on the Board I think one of the
24 first votes I took was to adopt the final leg of the risk
25 mitigation strategy or program. I can't remember the

1 right term. So I would -- and I'm very cognizant, very
2 mindful that we -- you know, we have an obligation to meet
3 the return bogey, you know, make sure that we can provide
4 the secure retirement benefit. But at the same time I
5 want to make sure we're driven by experience and not
6 short-term immediate fluctuations in the market, you know.

7 So just looking forward to more reports and --
8 before we make any changes.

9 Thank you very much. Appreciate the response
10 back on the questions. Thank you.

11 CHAIRPERSON MILLER: Okay. Director Middleton.

12 COMMITTEE MEMBER MIDDLETON: All right. Thank
13 you.

14 And thank you for what's very interesting and
15 very strong reports.

16 So a couple of general questions. Then I want to
17 dig into a couple of specific items.

18 But if I understand right, with scenario A you're
19 telling us that there is an opportunity to potentially get
20 to 7 percent return; is that correct?

21 MANAGING INVESTMENT DIRECTOR GUNN: Under the
22 current survey, there's always that potential. So if you
23 think about the way these work. Yeah.

24 COMMITTEE MEMBER MIDDLETON: So is that largely
25 driven by an increase in our risk appetite or is the

1 market itself changing?

2 MANAGING INVESTMENT DIRECTOR GUNN: I think
3 that's just more a reflection of the survey results
4 through the market changing. We haven't changed our risk
5 appetite for that portfolio.

6 COMMITTEE MEMBER MIDDLETON: All right. As we
7 look at these kind of changes - and this is really
8 directed more to Steve and Tom - what are the areas that
9 you see are the risk to us with these changes?

10 MR. FORESTI: I think -- and Ms. Taylor touched
11 on one of them, which is that the -- you know, the
12 premiums that are assumed to be there in the private
13 markets don't materialize over time as they have in the
14 past. So that's -- that's one of them.

15 Dan, you know, mentioned earlier the importance
16 of managing liquidity as a private part of the portfolio
17 increases. That's a risk. It's a manageable risk, but
18 it's a risk.

19 So I -- I'd touch on those two in particular.
20 But in general these are capital market assumptions and,
21 you know, I think we have a lot of confidence
22 directionally and we've had such a profound change from
23 two years ago that, while there's uncertainty in capital
24 market assumptions, I think to ignore that change would be
25 to just throw our hands up and say we don't really know

1 anything about the future. And I don't think that's true.

2 So while we have uncertainty, we do -- you know,
3 we have strong modeling, strong techniques. Yes, there's
4 uncertainty around that. But there's always that general
5 risk. You could see in the survey results Sterling showed
6 how wide a variance. I mean I found that to be remarkable
7 just how different the expected return on that same
8 portfolio is from 15 different providers.

9 I will say, that doesn't mean that their asset
10 allocation results would necessarily be dramatically
11 different from what the suggested portfolio is, if you
12 worked off of those. Because it's really the relative
13 relationship between asset class returns. It's just as
14 that for a static portfolio, that's a range. But I think
15 that's speaks volumes to the level of uncertainty. But
16 hopefully that helps at laying out what I think some of
17 the risks might be.

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

20 One of the things I noticed with all of the
21 scenarios is the percentage of real assets stays stable at
22 15 percent. Yet over the last few years, particularly
23 since COVID, we've seen a lot of turn in commercial real
24 estate market. Do you see there being a different mix of
25 real estate assets that we will be holding and do you

1 continue to believe that real estate -- or that real
2 assets will carry out its traditional responsibility as a
3 stable investment?

4 MANAGING INVESTMENT DIRECTOR GUNN: So in terms
5 of the mix, that's probably a question best addressed to
6 Sarah. I think the mix probably does change given
7 everything that we've been seeing going on in the market.

8 In terms of the allocation itself, we've sort of
9 held the line at 15 percent. If you've been really,
10 really restrict in the sensitivity analysis, you might
11 have seen that allocation actually reduced. And if we
12 were actually to have abided by that, we would have been
13 selling in a market where we probably didn't want to be
14 selling. So the sensitivity analysis that we've already
15 looked at, if we hold the line as opposed to maybe coming
16 to the market, it ends up it makes very little difference
17 at the total portfolio level.

18 So, you know, we talk about, you know, analytics
19 and so on. We also try to impose some common sense and
20 try to avoid doing things that we might regret in the
21 future.

22 COMMITTEE MEMBER MIDDLETON: Thank you.

23 Doesn't really hit on the issue of the ALM, but I
24 was a bit surprised when the slide was up on fixed income
25 that it showed 78 percent of it was internally managed

1 compared to a lot of others that were in the 90s. It
2 would -- as someone who's not an investment professional,
3 it would seem that fixed income would be an area that
4 would be more amenable to internal management.

5 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

6 Yeah, but it is substantially internally managed,
7 right. But it is down from mid-90s. And I would say that
8 has to do with two things. Number 1, the addition of
9 emerging market sovereigns as a sleeve. Remember, we did
10 that in 2021. We think there's opportunity for active
11 management there. And a result we've moved some
12 externally.

13 And then number 2, we had been managing high
14 yield primarily internally. We actually think that
15 there's some real opportunity for active management and
16 excess returns and high yield. But that's -- it's very
17 hard to attract a high yield team; and as a result, we
18 would -- we have moved a substantial portion of that
19 external also.

20 COMMITTEE MEMBER MIDDLETON: All right. Thank
21 you.

22 Moving towards the end of my questions. But I
23 really do appreciate the commitment to stability and
24 private equity investing and trying to assess the pacing
25 models that you're speaking to.

1 The media has had paid a lot of attention to
2 another announcement that we've made going into this
3 meeting, and that's the recommendation to come close to
4 doubling the amount of investment that we have in - for
5 want of a better word - climate-related green energy.

6 Does a greater commitment in private equity make it
7 easier for us to move in that field, or is it even
8 relevant to that discussion?

9 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: It
10 may be that we should get Anton and Peter up here for
11 that. Or we can take that up under Item 4 -- or 6, I'm
12 sorry, D if you'd like.

13 Yeah, you know, I would say that in general, yes,
14 it would -- actually does create opportunities for us.
15 But to get any more detail than that, I would want those
16 two to answer that question.

17 CHAIRPERSON MILLER: Yeah, let's hold it till D.

18 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

19 Okay.

20 COMMITTEE MEMBER MIDDLETON: We'll defer that
21 question till later.

22 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: And
23 I'll let them know that they are going to have to answer
24 that question in 6d.

25 COMMITTEE MEMBER MIDDLETON: So really the last

1 question.

2 And we started the day with some pretty harrowing
3 commentary coming in from individuals in the workforce.
4 And that's all private-equity-driven investment. So -- I
5 appreciate where we're trying to go. But I'm also
6 chastened by the knowledge that the greater investment
7 that we put in private equity, the increased
8 responsibility that we have to ensure that we are working
9 with partners that actually do share our values and our
10 long-term values.

11 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

12 Agreed.

13 COMMITTEE MEMBER MIDDLETON: Okay.

14 CHAIRPERSON MILLER: Okay. Thank you.

15 We're on to Director Pacheco.

16 COMMITTEE MEMBER PACHECO: Thank you.

17 I just want to compliment my board members,
18 President Taylor, Mr. Rubalcava and Ms. Middleton, about
19 this private equity, and the allocation proposed here with
20 number A from 13 to 17 percent as well as the private debt
21 from 5 to 8 percent. And, you know, from my
22 understanding, you know, these assets are illiquid in
23 nature. They are about a 10-year life cycle horizon.

24 But I want to know if in part -- is part of this
25 analysis that -- are we going to incorporate the private

1 equity data conversion project, which is -- brings out
2 some more information about what's going on? You know,
3 understanding some analytics about private equity, I know
4 inherently it's kind of difficult to find out what's going
5 on under the hood. But is that something that we are, you
6 know, considering working with in words or milestone in
7 that? Because I don't think we've talked about that a
8 lot.

9 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

10 Yeah. So the private equity data convergence
11 project continues our pace. And we've been very pleased
12 with the uptake. We're continuing to focus on it. So
13 you'll see more on that. And, again, Anton would be the
14 expert, and I'm happy to have Anton come up. But it is
15 definitely the case that we are continuing on the private
16 equity data convergence project.

17 To your comment on liquidity, yes, private equity
18 and private debt are illiquid assets. I would say the
19 actual -- the fund life cycles are about 10 years in
20 private equity and about 6 to 7 years in private debt.
21 And I would say that the asset holds are -- again are
22 about half that, maybe 5 to 6 years in private equity and
23 again maybe 3 years in private debt.

24 But there is a liquidity component on all of that
25 is what weighs into those pacing models. And, again, that

1 was the area that President Taylor was picking at earlier.

2 COMMITTEE MEMBER PACHECO: All right. Thank you
3 very much.

4 CHAIRPERSON MILLER: Okay. Thank you.

5 I don't see any requests to speak further on this
6 item from the Board.

7 And I believe we have one public commenter on the
8 phone for item 6b.

9 Do we have Ernest Tanga on the phone?

10 Oh, in the room.

11 Okay. Welcome. And when you introduce yourself
12 and start to speak, your time will appear; and it will
13 start when you begin.

14 ERNEST TANGA: Good morning, Investment Board.
15 My name is Ernest Tanga. I'm a ramp agent. I work at
16 Dulles International Airport outside Washington D.C. I
17 work for Swissport U.S.A.

18 I want to tell you what it's like to work for
19 Swissport U.S.A. In March this year, that's -- excuse
20 me -- in February 13 this year, I was actually injured on
21 the job because the type of bag loader I had to use on the
22 flight was loading bags onto -- it wasn't safe and had
23 caught between it and plane. I lift heavy bags and my
24 legs slipped in between the plane and the bag loader. I
25 was totally trapped and in pain. Still I have -- still I

1 have pain in my leg. That's my knee precisely. And some
2 days I -- it makes it hard to work. I heard the work
3 even -- a worker even died because of a similar situation
4 at another airport. I'm also not the only Swissport
5 worker that has been hurt at work before.

6 Honestly, because we don't have enough workers, I
7 feel like working at Swissport is getting more and more
8 dangerous for workers like me. Swissport was recently
9 named one of -- was included as one of the dirty dozen by
10 the National Council of Occupational Safety and Health,
11 which is at least of employee -- employers whose work are
12 more from to hazard that the company can prevent.

13 Just recently my co-workers and I also realized
14 we were missing wages for hours that we worked.
15 Personally, I was missing over \$500 in just an 8-week
16 period. I knew many Swissport workers across the country
17 are facing similar issues with the errant paid correctly
18 for the hours they worked.

19 I'm sure you can see how this isn't good for
20 investors like you. I don't -- I don't always feel safe
21 at work and I am overworked and not paid correctly. I ask
22 you to listen to our stories and do what you can to help
23 us.

24 Thank you very much.

25 CHAIRPERSON MILLER: Thank you.

1 Okay. I don't see any other requests to speak on
2 this item. So that will bring us to Item 6c, Total Fund
3 Portfolio Management, the Annual Program Review.

4 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Yes.
5 Thank you, Mr. Chair. And it's fortunate that we have
6 Sterling up here with us because he will take us through
7 the Total Fund Portfolio Management Annual Program Review.

8 Sterling, over to you.

9 CHAIRPERSON MILLER: Very good.

10 (Thereupon a slide presentation).

11 MANAGING INVESTMENT DIRECTOR GUNN: Thank you,
12 Dan. And I was kind of pleased earlier when Dan described
13 the SI review as another exciting review. Which kind of
14 implied that maybe this one would also be exciting.

15 I'm not so sure.

16 Anyway, I'll carry on.

17 So I just want to go over TFPM and make sure that
18 it's a -- a few things. One, give an overview of what our
19 objectives are and how we're organized.

20 --o0o--

21 MANAGING INVESTMENT DIRECTOR GUNN: We'll speak
22 to a few market-related themes and, you know, some
23 concerns we see on the horizon. We've already talked to a
24 number of those already but I'll just touch base with
25 them.

1 One is portfolio completion. And that's just
2 sort of a day-to-day management of -- managing cash flows
3 into and out of the PERF, including when we have capital
4 calls on private assets and so on.

5 And then another more visible activity is more
6 quarterly, and that's the rebalancing of the portfolio.

7 Over time, because of the return that will occur
8 in the quarter, the asset mixes will differ from where
9 we'd like them to be. And so it's our role to rebalance
10 that portfolio. So we work with the asset classes to do
11 that work.

12 Now, support of those efforts and others, such as
13 strategic asset allocation, we do have research that
14 supports the deployment of risk.

15 And actually I've mentioned the SAA, but also the
16 risk budgeting, which we'll talk about in a minute.

17 And we also work to monetize the balance sheet.
18 So basically there are a lot of assets that we have
19 invested passively. So we do our best to put them to work
20 on a short-term basis to try and improve our returns.

21 And we have few metrics, which I think are on the
22 next page.

23 --o0o--

24 MANAGING INVESTMENT DIRECTOR GUNN: Or perhaps
25 not.

1 So come back -- this -- we contribute very little
2 to tracking error, so come back to that.

3 We also have about \$34 billion outstanding right
4 now of financing activities. That supports the leverage
5 in the portfolio, both the strategic leverage as well as
6 active activities.

7 And we've helped set a current risk budget for
8 the year where we have projected returns, a 5-year average
9 of about \$800 million.

10 And in the strategic plan we've been working on
11 for the last year with the Board we've been talking to,
12 the idea is to try to increase that outcome to perhaps as
13 much as \$3 billion.

14 We'll go to the next page to just talk briefly
15 about the functionality. I won't go through this line by
16 line.

17 --o0o--

18 MANAGING INVESTMENT DIRECTOR GUNN: But we have a
19 role in developing asset class strategies. We have a role
20 in the SAA, as I mentioned. We also have a role in
21 meeting the needs of internal stakeholders, whether it's
22 the economic reporting, having views on what's going on in
23 the markets, and so on. We also have a role in providing
24 ongoing risk assessment of what's actually in the
25 portfolio and our portfolio position. And that includes

1 regularly reports to the Board here.

2 And, finally, we also work for the asset classes
3 to assist in the ongoing cash and liquidity needs. So we
4 talked earlier, for example, about the pacing models that
5 we're developing with the asset classes to make sure that
6 we're very comfortable with our liquidity situation. And
7 again both now, which is maybe the easy part; but also we
8 were talking about, you know, if these asset classes grow
9 and become a more important feature of the portfolio, will
10 we have sufficient liquidity in the future? And I'm very
11 comfortable in saying, yes, we will with our current
12 assumptions and our current attitude towards those asset
13 classes.

14 So there are key accomplishments on the next
15 page.

16 --o0o--

17 MANAGING INVESTMENT DIRECTOR GUNN: So we
18 undertook a number of issues this past year in support of
19 the strategies overall. One was top of the list,
20 improving our liquidity and financing processes. These
21 are actually coupled together. How we finance ourselves
22 actually is part of the balance sheet, and then the
23 balance sheet provides our liquidity. So we focus on
24 that.

25 We've coordinated the transition of the SAA. And

1 we'll talk a bit about that and then perhaps enclose those
2 details. But how do we go from what was approved two
3 years ago, that starting point, to how do we get to it was
4 approved? That's the transition. We helped manage that.

5 We led the active risk innovation initiative,
6 which set a framework in governance for incorporating new
7 ideas into the portfolio. I think a few months ago we
8 spoke about our desire to increase our active portfolio
9 with a desire to creating more dollar value-add. To do
10 that, part of that is to have new ideas, at least new to
11 us, and incorporate it into the active portfolio. How do
12 we do that?

13 Mentioned that we socialize the new risk budget
14 and incomes for that.

15 And -- I guess we can go to the next page around
16 strategy and portfolio positioning.

17 --o0o--

18 MANAGING INVESTMENT DIRECTOR GUNN: And I've
19 mentioned it a few times, but it's well worth mentioning
20 again here. And we'll see the quantif -- we'll quantify
21 this in a minute. But maintain total portfolio risk and
22 how we do that through portfolio completion, through
23 rebalancing. And also how do we maintain our financing.

24 In terms of our strategy, having recommended
25 strategic asset allocation to harvest our long-term risk

1 premium, that's the primary reason for trying to maintain
2 the risk at the levels that were approved, as well as
3 designing and facilitating that risk budgeting process,
4 which leads to higher DVA in the long run.

5 Next slide, please.

6 --o0o--

7 MANAGING INVESTMENT DIRECTOR GUNN: Well, we've
8 talked through some of the questions from the Board and
9 we've talked about some of these. But I'm going to touch
10 on them again.

11 So current concerns. Although they are current,
12 they are not new. In fact, I would say most of them are
13 actually par for the course, and it's just a matter of
14 degree now they vary over time.

15 So we talked a bit about the private assets. And
16 Steve mentioned earlier about one of the concerns is can
17 we maintain the relative merits of privates relative to
18 publics? Do they maintain that relative advantage? It's
19 always a concern. So that's why we have a regular review,
20 not just as to pacing but also there are assumptions that
21 drop that pacing.

22 Geopolitics. We touched on that very briefly
23 earlier. I would say they become less predictable, they
24 got more volatile. The world's quickly changing. But I
25 do believe global markets still have a role in our

1 portfolio. One of the key tools we had to manage
2 geopolitical risk is diversification. Rather than making
3 a single bet on just one or two countries, having a
4 diversified portfolio, but then over time also mentoring
5 that; just as we do with our assumptions about the private
6 assets, we can monitor our assumptions about countries
7 over time. And if we feel adjustments are made, we can
8 try to do that.

9 And also another thing that we touched in our
10 concern we've discussed earlier is about the future just
11 in general around growth and inflation. On that point, I
12 do kind of feel that we're going to be in a world of
13 long-run trends, slightly higher inflation, perhaps maybe
14 a little bit lower growth. It's a more challenging world.
15 It means we'll have to work harder. And SO two years from
16 now we'll go through the ALM and we'll have a conversation
17 around those details again. But I do think that's
18 probably a part of the world in the future. So we're
19 involved in all those -- all three of those themes or
20 those concerns, we also like to talk about here.

21 On the investment themes we talked about
22 harvesting risk premium. We talked about that also a few
23 months ago. Provide some exhibits about what actually
24 looks like and how that's a long-term strategy. I didn't
25 include the exhibits here, but it was in the public

1 document that we shared, about equity risk premium, for
2 example. Even on a 10-year rolling basis you can still
3 have negative returns. And that happens about 10 percent
4 in the history that we've presented there.

5 So it can be a bumpy road, but it's an important
6 road to take because we need to find those returns to meet
7 our discount rate.

8 And then the last theme we have here is simply
9 working with Peter and the asset classes to make sure we
10 do incorporate sustainable investing practices into our
11 portfolio.

12 And as I opened with on the ALM, that's -- I
13 don't think that's incongruous with actually trying to
14 maximize returns. I think it's consistent.

15 Go to the next page, please

16 --o0o--

17 MANAGING INVESTMENT DIRECTOR GUNN: Already speak
18 to this -- fairly briefly, but we highlighted the red
19 part. As I mentioned, we rebalanced the portfolio to
20 maintain risk, to maintain the mix that we want in the
21 portfolio. So the column we've highlighted, Total Policy
22 Benchmark. The policy portfolio is a benchmark for -- to
23 the Investment Office. And we try to maintain the mix, to
24 maintain that benchmark.

25 So this is just a summary of the 10-year

1 performance, which is a reasonable horizon over which to
2 measure. And you see it's a 7 percent return. It
3 generated about \$234 billion in total over that period of
4 time. And that's not the work done solely by my team at
5 all. Far from it. But rather collectively, that's we've
6 done together. And my team's contribution is to maintain
7 the overall mix at the target levels.

8 And also mentioned \$2.8 billion of
9 dollar-value-add there over the 10 years. And, again,
10 that's an area of interest for us, where we believe we can
11 create a larger active portfolio that can generate
12 additional dollar-value-add over the coming years. That's
13 part of our strategy that we're developing.

14 Next page.

15 --o0o--

16 MANAGING INVESTMENT DIRECTOR GUNN: Just very
17 briefly. A short discussion on tracking error. We throw
18 the term around a lot. Really it only applies to the
19 public asset classes. That's the only place where it's
20 really actually meaningful.

21 We do measure it for the private asset classes.
22 When we -- there was a comment earlier that, you know,
23 benchmarks -- you can't really have a good benchmark from
24 the private asset class. It's very hard. So we do
25 measure it. We can remonitor it. It's not a policy

1 element. The policy element applies to how the -- how
2 different are the public asset classes from their
3 benchmarks. That's measurable, and that is meaningful.
4 So we can measure that.

5 What you can see here in this table highlighted
6 in the red box there, historically reviewed is very, very
7 little. What's available to us in terms of tracking
8 error? The policy says we can use up to 100 basis points.
9 We're currently using about 15. And again it's our intent
10 as we build a stronger active portfolio that you should
11 see that increase over time.

12 We can go to the next slide, please.

13 --o0o--

14 MANAGING INVESTMENT DIRECTOR GUNN: So this sort
15 of a measure of our day-to-day activities and so on. We
16 set a benchmark for ourselves, you know, buying and
17 selling in the markets. There are some frictions in the
18 markets. There are some costs associated with that. And
19 so we allowed ourselves 2 basis points as an expected cost
20 over the year.

21 What this chart shows us is a few pieces of
22 information. That red line is the expected outline --
23 outcome. It's a cost, so slow decline.

24 The cones, the dashed lines, and the dotted lines
25 are the sort of error bars, as it were, the tolerance for

1 being different from the expected outcome.

2 And then the blue line -- the variable blue line
3 is what we've actually done over time. And you can see
4 very early, on around June 20, there's a bit of a glitch
5 there. That's COVID. It's hard to manage through those
6 kind of exciting times, but we did a pretty good job since
7 then. We've actually done better than expectation. We're
8 pretty much flat, almost no cost. And again this goes
9 back to, as a team, if no -- if you're not hearing about
10 us, it's probably because we're doing a good job as
11 opposed to the other way around.

12 So go to the next slide.

13 --o0o--

14 MANAGING INVESTMENT DIRECTOR GUNN: The other
15 activity that we're involved in is raising finances, for
16 the leverage, for the active portfolio. And we are
17 benchmark on those costs. What does it cost for us to
18 raise funds? And here our benchmark they mention, it's
19 3-month T-bills plus 50 basis points.

20 So it's measuring again how well are we doing
21 relative to that benchmark. It's a little bit noisy here
22 and there, but we're well within the bands that we
23 expected and set for ourselves. So again, if we do a good
24 job no one really notices. No surprises.

25 Next page, please.

1 --o0o--

2 MANAGING INVESTMENT DIRECTOR GUNN: We have
3 completed several initiatives this year going forward. We
4 do see a number of areas for refinement. And really it's
5 just ongoing improvements of stuff that we've already
6 started.

7 In terms of operational capabilities that would
8 include some new hires and some investments in our
9 technology.

10 Second, working on enhancing our total portfolio
11 diversification. I mentioned earlier research. So we are
12 looking at, are there additional strategies we can be
13 pursuing. And they would probably start in the active
14 portfolio to improve diversification.

15 And that plays into, you know, we are trying to
16 increase the size of the active portfolio by working with
17 the asset classes.

18 And one last item, I've talked about financing.
19 There are many, many different ways in the world one can
20 raise financing. We are trying to improve our
21 capabilities and broaden the number of channels that we
22 can access.

23 So some of that financing might be related to,
24 for example, you know, treasuries as collateral. If we
25 can expand the list of securities we can use as

1 collateral, then that strengthens our ability to borrow
2 when we post collateral.

3 So those are the activities we've been engaged
4 in, we expect to engage in in the coming year.

5 And that concludes my discussion of how the
6 team's done over the last year and where we hope to be
7 going in the coming year.

8 And probably disappointed Dan. Not as exciting
9 as the SI review will be.

10 CHAIRPERSON MILLER: Well, I think it was plenty
11 exciting.

12 (Laughter).

13 CHAIRPERSON MILLER: I appreciate the report and
14 all the good information.

15 And I think we've got some questions and
16 comments. And I'll start with Director Pacheco.

17 COMMITTEE MEMBER PACHECO: Thank you. Thank you,
18 Chairman Miller, again.

19 Thank you, Mr. Gunn, with respect to your report.

20 I'd like to go back to the question, I think it
21 was on the last slide you just mentioned, on the area for
22 refinement and you mentioned improved operational
23 capacity. Now when I was reading Wilshire's letter, there
24 were some concerns regarding vacancies in your department.
25 And I wanted to know how -- what steps are being taken to

1 address that. Because if we're going to move forward with
2 this, we should also be addressing that as well.

3 MANAGING INVESTMENT DIRECTOR GUNN: No, I agree,
4 and we are working to fill those positions that we have
5 available to us.

6 COMMITTEE MEMBER PACHECO: Okay.

7 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: And,
8 Mr. Pacheco, to your question, I think it's probably worth
9 asking Wilshire since they provided an opinion to comment
10 on the overall --

11 COMMITTEE MEMBER PACHECO: Yes, that would be
12 good.

13 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Ali,
14 over to you.

15 MR. KAZEMI: Great. Good morning, everybody.
16 Ali Kazemi from Wilshire Advisors here to present some
17 brief remarks in regards to the letter that Director
18 Pacheco just referenced, which should serve as a
19 complement to kind of a more detailed review that Sterling
20 gave on the overall TFPM program.

21 You know, we've been covering the TFPM program
22 for several years now that the name of the team, the
23 design of the team has changed somewhat over those years.
24 But the -- you know, the core nature of it in terms of
25 serving as a central hub for all things related to

1 portfolio construction and implementation continue to be
2 at the forefront of what that group does.

3 In terms of a higher level view of the core
4 functions, we focus on four things: one is research,
5 trading, portfolio strategy, and then overall portfolio
6 design. And I'll briefly walk through those four pieces
7 in terms of kind of our evaluation of them.

8 The trading team oversees the performance funding
9 desk, manages the majority of performance trading, which
10 includes overall balance sheet management which Sterling
11 addressed. Over the last year some of the specific asset
12 class trading has shifted from the TFPM team into the
13 specific asset classes, so the scope and the size of the
14 resources have changed somewhat. But overall in terms of
15 our scoring for that group, it's steady in terms of on how
16 we evaluate that from a qualitative standpoint.

17 In terms of the portfolio design team, that was
18 introduced as a carve-out of TFPM last year, with the
19 intention of kind of complementing the overall portfolio
20 construction process by simply helping to guide how the
21 approved asset segments come together overall in the
22 portfolio.

23 We've seen an expansion of that team over the
24 last year and our scoring continues to be strong, which is
25 truly a reflection of what we think is, you know, high

1 caliber contributions from that segment of the TFPM
2 structure.

3 The portfolio strategy team manages the strategic
4 asset allocation implementation. We saw a little bit of
5 the fruits of those labors say in the mid-cycle review,
6 and also what we can talk about later in closed session.
7 But in addition to implementation of the strategic asset
8 allocation, strategy development and complementary asset
9 class research is also a component of what the portfolio
10 strategy team does. And, again, that team has been highly
11 stable in terms of its construction and in terms of
12 personnel. And similar to the portfolio design team, we
13 observe, you know, above average contributions from that
14 team, and it's reflected in our overall forecasting score
15 for TFPM.

16 The last component which Director Pacheco I think
17 addresses the point that you raise from our letter is in
18 regards to the research team. That group supports PERF
19 centrally providing research across the board and
20 assisting support on various projects for other programs,
21 again within the broader investment team. That team has
22 been impacted by turnover. And it's low in terms of its
23 resources relative to past years.

24 There are some open positions but currently
25 they're around four individuals kind of managing the

1 overall research with three open positions. So you're
2 running at about 60 percent of kind of the target range of
3 what the team has kind of laid out. So that certainly has
4 an impact in terms of the bandwidth of that team. And
5 from our standpoint that was the one area where we did
6 decrease overall scoring in terms of depth and breadth of
7 resources.

8 So that was the one area to speak to in terms of
9 the overall resources of the broader TFPM team.

10 When we factor in everything overall, our scoring
11 for TFPM as a whole remains in the same decile in terms of
12 it being above average. There are components of the
13 scoring that have decreased that numerically -- to a
14 slight degree. But that has been really offset by again
15 outstanding contributions from the existing team across
16 those four functions. And you've seen again some of that
17 in the work that's been presented today.

18 So I'll pause there. Hopefully that addresses
19 what was mentioned in our letter. But happy to address
20 any other questions.

21 COMMITTEE MEMBER PACHECO: Oh, it does address
22 most of it. I just -- I'm just curious. I mean, I know
23 that earlier in the year we -- earlier this year we were
24 pushing -- it was -- I think there was an advertisement
25 called "Invest In Us" or "Invest From Us," that we were

1 trying to recruit more folks in the Investment Office.
2 And I -- so I brief we also had the rapid recruitment
3 process, we were trying to recruit people that way.

4 I'm just wondering if there are other tools that
5 we could utilize that would also help in that respect, but
6 I'm just -- if you can elaborate on that, that would be
7 great.

8 MR. KAZEMI: So I'll -- you know, in terms of the
9 mechanics, the specifics of recruiting, an organization
10 like CalPERS I could probably defer to staff to walk
11 through those details. You know, our view as the Board's
12 consultant is just to provide context to what we observe,
13 and our dialogue with the team, and then the potential
14 impact that it may have going back historically but also
15 in the future. And then that's kind of I think where we
16 would go back to staff on that.

17 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

18 Yeah. And I would say it continues to be a tight
19 labor market. It continues to be a -- you know, the
20 challenges that have been ours, you know, continue. But I
21 will also say that a partnership with Michele Tucker and
22 team has been really helpful. That rapid recruitment I
23 think was actually quite successful. We landed several
24 IOs. You have seen our, you know, size of the staff grow.
25 There are still vacancies. We are still making progress

1 on those vacancies. We have started using search firms
2 more. So I think you're seeing progress and you're seeing
3 a very supportive organization, like I commented on in my
4 opening comments. But it's a challenged job market and
5 we'll continue to work through it.

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

8 CHAIRPERSON MILLER: Okay. Next questioner is
9 President Taylor.

10 VICE CHAIRPERSON TAYLOR: Okay. Thank you, Chair
11 Miller.

12 Don't leave, because I do have a question for
13 you. So, the fourth decile you said was above average,
14 but it still doesn't sound too good. So -- and then you
15 said we were down -- you scored us a little lower because
16 of the vacancies and such. So what is -- why would we be
17 kind of just above average normally? And are we trending
18 up?

19 MR. KAZEMI: So fourth decile is still kind of
20 above average in terms of the way the Wilshire model
21 works. Again, we base that scoring on trying to compare
22 CalPERS organization like we would any external asset
23 management firm. And so, certainly there are going to be
24 some limitations and differences in terms of how we can
25 evaluate an external asset management firm versus an

1 organization like CalPERS. Part of the weighting of that
2 scoring is also impacted by the overall firm and team
3 score. So some of that is related to stuff that's not
4 specific to the TFPM team. So I think that should be
5 noted. And so some of that was discussed in September
6 when we talked about some of the issues relating to the
7 departure of Nicole at the CIO level.

8 In terms of the other point you asked about in
9 terms of scoring, there are areas such as forecasting,
10 where we've increased the scoring; we've seen the benefits
11 of that. That was somewhat offset by the depth and
12 breadth of resources within the research group that we did
13 decrease the score. So there are components within the
14 overall scoring that are kind of moving in different
15 directions. But overall we add everything up together; it
16 kind of leaves you at that same level, the fourth decile,
17 which is again above average in our model.

18 VICE CHAIRPERSON TAYLOR: Okay. Then that's
19 above average. Okay. Thank you.

20 My next question is on page 5, you talked about
21 the Executed Active Risk Innovation Business Initiative,
22 and then "Developed and socialized new risk budgeting
23 framework."

24 What is the former, Executed Active Risk
25 Innovation Business Initiative? What is that?

1 MANAGING INVESTMENT DIRECTOR GUNN: So the Active
2 Risk Initiative was the idea of research, to find new
3 strategies that we can include in the portfolio. And our
4 focus is on cross-asset-class strategies. Whereas each
5 asset class obviously has its own activities. Where there
6 are opportunities across asset class, we're focusing on
7 those. And the idea's to find strategies that will
8 improve the active portfolio in the near term and perhaps
9 even become part of the strategic asset allocation in a
10 longer term.

11 VICE CHAIRPERSON TAYLOR: Okay. So it has
12 nothing to do with like our risk policy or anything?

13 MANAGING INVESTMENT DIRECTOR GUNN: No, no.

14 VICE CHAIRPERSON TAYLOR: It's you guys using new
15 research to find new things to invest in --

16 MANAGING INVESTMENT DIRECTOR GUNN: Correct.

17 VICE CHAIRPERSON TAYLOR: -- that could increase
18 our risk?

19 MANAGING INVESTMENT DIRECTOR GUNN: Correct.

20 VICE CHAIRPERSON TAYLOR: Gotcha.

21 Okay. That was my last question.

22 Thank you very much for the report.

23 CHAIRPERSON MILLER: Okay. Thank you for the
24 report.

25 I'm not seeing any more requests to speak from

1 the Board.

2 And I don't see any public requests to speak on
3 this item.

4 So thank you to you and the whole team. And it's
5 all very encouraging. Looking forward to more to come as
6 the time goes on.

7 So at this point I think it's a good time for us
8 to break for lunch. It's been almost two hours again. So
9 we'll come back at 1:45 and jump right back in.

10 (Off record: 12:35 a.m.)

11 (Thereupon a lunch break was taken.)

12 (On record: 1:46 p.m.)

13 CHAIRPERSON MILLER: Okay. I have 1:46 up there.
14 So we'll jump back in and get rolling.

15 We finished Item 6c, and so now we're on to Item
16 6d, which is CalPERS Sustainable Investments 2030
17 Strategy.

18 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Yes,
19 Thank you, Mr. Chair. And I see Peter Cashion joining me
20 here. And then we'll ask the rest of his team to come up
21 too. And that's why I bounced down one was to create
22 plenty of room for everybody.

23 As you say, this is our review of the Sustainable
24 Investments 2030 Strategy providing some objectives, some
25 KPIs and the like to really dig in. This is a strategy

1 we're very excited about. So with no further ado, I'll
2 turn it over to Peter to take us through the item.

3 (Thereupon a slide presentation).

4 MANAGING INVESTMENT DIRECTOR CASHION: Great.
5 Thank you, Dan. Pleasure to be back. We'll try to make
6 this as exciting as the earlier presentations from
7 Sterling on portfolio management. I don't know if we'll
8 achieve that but we'll certainly do our best.

9 CHAIRPERSON MILLER: Tough act to follow.

10 (Laughter).

11 MANAGING INVESTMENT DIRECTOR CASHION: Mr.
12 Chairman, members of the Committee. It's our pleasure.
13 We're very excited to present to you today the CalPERS
14 Sustainable Investments 2030 Strategy. We have the team
15 assembled here to do that. This strategy really builds
16 off the strong foundation and historical global leadership
17 of CalPERS in the area of advocacy, DEI, and stewardship.

18 We will now expand this global leadership into
19 the area of sustainable investments.

20 In July we brought to you our thinking about what
21 lies ahead for CalPERS when it comes to sustainable
22 investments. At that time, we were evaluating different
23 approaches, and your input at the July Board off-site
24 provided valuable guidance.

25 Today we're sharing with you what is really the

1 roadmap for the next seven years on this topic.

2 We'll cover a lot of material today. It's really
3 quite dense. However, I think we can distill the strategy
4 down to three simple key words. And I'd like to share
5 that with you.

6 The first is "100 billion."

7 The second word is "resilience."

8 And the third word is "equity."

9 Let me elaborate a bit on each one.

10 With respect to a hundred billion. So we will
11 increase our sustainable investments in climate solutions
12 up to that number to achieve two objectives:

13 The first is outperformance. We believe by
14 investing in that strategy, we can achieve outperformance.

15 The second objective relates to the portfolio
16 Carbonization Lev -- or Level of Carbon in our portfolio.

17 We believe by 2030 we will be able to reduce the
18 carbon intensity of the portfolio by 50 percent. And a
19 significant contributor to that will be the hundred
20 billion.

21 The second item, resilience. So we believe that
22 the portfolio resilience will increase by enhancing our
23 integration of ESG into our diligence process; and by
24 further incorporating climate risk assessment both in our
25 individual investment assessments but also from a top down

1 portfolio review.

2 The third item is equity. So promoting equity
3 diversity inclusion in our investment program and through
4 our engagement activities, and also promoting an efficient
5 and equitable financial markets through advocacy work.

6 --o0o--

7 MANAGING INVESTMENT DIRECTOR CASHION: Apologies
8 for the slide.

9 One more.

10 There.

11 --o0o--

12 MANAGING INVESTMENT DIRECTOR CASHION: Okay. So
13 the SI strategy's really centered around five objectives.
14 And the team will walk you through each one of these five
15 parameters. And as you can see, those three key words I
16 mentioned really resonate in these -- through these items.

17 I also wanted to say that in anticipation of
18 questions or comments about: "This may be good but how do
19 you achieve it?" Because I think that was always a --
20 that was a question from this morning: How are we going
21 to measure? How are we going to achieve? And this was
22 very much in our thoughts when we constructed this
23 strategy.

24 And later in the presentation, specifically on
25 side 20, we'll walk you through for each of these five

1 items: How we going to have key performance indicators
2 and targets?

3 And as you can see, the first one relates to
4 outperformance. And this includes the hundred billion,
5 increasing portfolio resilience. Travis will walk us
6 through that.

7 We're also excited to share more information on
8 the Net Zero Plan and how again this hundred billion ties
9 into that number. As you know, we've had an independent
10 review by Mercer, the consulting firm, on that.

11 And then Mike and Tamara will walk us through how
12 we're using this to promote greater inclusion and
13 representation in the financial industry and build
14 efficient and equitable financial markets.

15 --o0o--

16 MANAGING INVESTMENT DIRECTOR CASHION: So let me
17 jump into the first item related to the five, which is
18 Generate Outperformance. And we'll do this by investing
19 in the transition to a low carbon economy, including
20 climate solutions, and by investing in opportunities
21 through emerging and diverse manager program. And also
22 including targets for both those items.

23 If we look at the four bullet points, we'll have
24 climate related investment targets for 2030. We're
25 currently coming up with investment plans with each of the

1 asset classes to determine what is the best approach for
2 increasing the exposure to these asset classes. And the
3 allocation -- so this incremental 55 billion in
4 investments over the coming seven years. And we'll work
5 jointly with the asset classes to deploy those funds and
6 it will be essentially a joint allocation between
7 sustainable investments and the asset class.

8 And then further we'll build on our commitment to
9 emerging and diverse manager program, which has been very
10 successful, and Mike Silva's played a lead role in that.

11 --o0o--

12 MANAGING INVESTMENT DIRECTOR CASHION: In terms
13 of generating outperformance, why do we think that's
14 possible? So first maybe let me define what climate
15 solutions is.

16 Across the top, we have the different categories:
17 Mitigation, Adaptation, and Transition. So any
18 investment that results in a mitigation, reduction in GHG
19 emissions; adaptation, which is an investment that reduces
20 the harm or the impacts from climate change; and, third,
21 transition. So if we have an investment in a
22 hard-to-abate sector, a high emitting sector, if we can
23 make investments that will move that from a brown to
24 green, that would qualify as a climate solution.

25 So an investment that meets one of those

1 categories, one of those criteria.

2 Under mitigation, so why is this a good time to
3 be investing?

4 Well, we're seeing it -- through this transition
5 to a low carbon economy, there's significant opportunities
6 that are evolving for new companies or companies taking on
7 tapping into that growth through either new technologies
8 or modifying existing technologies.

9 And this is a real -- the opportunity is
10 significant now. So why now? In part because of
11 legislation such as the IRA, and just the increase in
12 interest and demand from consumers.

13 And in terms of transition, what we're seeing
14 there in terms of why this is a good opportunity, well,
15 companies that are in these hard-to-abate sectors,
16 particularly in the energy sector, have valuations that
17 are quite low. And there's's an opportunity to come in at
18 an attractive price, work with them to increase the amount
19 of clean energy, and generate significant returns.

20 --o0o--

21 MANAGING INVESTMENT DIRECTOR CASHION: I won't go
22 into detail on this slide, but we thought it was important
23 as well to give some concrete examples as to what
24 represents climate solution, giving some tangible
25 examples. So Mitigation, renewable energy; Adaptation,

1 water management or agricultural adaptation; and
2 Transition, fossil-fuel base, power generation, going
3 from brown to green.

4 --o0o--

5 MANAGING INVESTMENT DIRECTOR CASHION: I'll pass
6 to Travis for the next section.

7 INVESTMENT MANAGER ANTONIONO: Great. Thanks,
8 Peter.

9 Yeah, Travis Antoniono, Investment Director of
10 Sustainable Investments. Great to be here with everyone
11 today.

12 So as you can see here, in number 2, increase
13 portfolio resilience. When you think about portfolio
14 resilience, it's how we navigate towards whatever
15 destination that we're doing, understanding now there's
16 going to be barriers, there's going to be some type of
17 risk management programs that are going to be deployed by
18 staff as well as our investment partners as well; and to
19 make sure that we're actually doing everything possible to
20 be able to understand what those risks might be and how we
21 actually overcome them or get through them.

22 So one focus area that I would like to be able to
23 highlight today on this increase portfolio resilience
24 would be the incorporation of ESG at each phase of
25 investment management process.

1 Later on in an appendix, in a slide that you've
2 seen before, highlights different tools and levers that we
3 do deploy at different phases of an investment management
4 process.

5 But we did conduct more of a benchmark and
6 assessment to a best practices across many different
7 firms, both in North America, Canada and other places as
8 well. What we found is that we can actually be doing a
9 bit more during some of the due diligence and ongoing
10 investment management of the assets that we own.

11 And unfortunately these can be quite labor
12 intensive and very time intensive as well. So one thing
13 going forward that we identified is that it's best to be
14 able to increase the amount of resources, specifically
15 staffing, involved in the ESG integration to be
16 exclusively dedicated to be able to undertake these
17 endeavors. So, in doing so, as you can see on one of the
18 bullets, we will be establishing an ESG integration team
19 within the sustainable investments program. This team
20 will be working directly with each of the different asset
21 classes to help facilitate the due diligence as well as
22 being about to engage with those GPs and external managers
23 even post-investment as well.

24 So I think this is going to be definitely
25 something that's going to be taking us from not only

1 having good practices but really having best-in-class
2 practices.

3 So you can transition to the pathway to Net Zero,
4 Peter already alluded to some of these aspects. But
5 really what lays before you are five main components of
6 CalPERS Net Zero Plan. What is shown is ultimately a very
7 significant evolution of the previous net zero activities
8 that the fund previously pursued. And I can't say or
9 stress really enough just how important some of these
10 aspects are, and particularly the hundred-billion-dollar
11 target that is laid out in Point 1 of the Net Zero Plan.
12 Obviously these will help -- these investments should help
13 the fund meet its return objectives, but also help
14 decarbonize the fund and ultimately decarbonize the world
15 as well.

16 Now, outside of that aspect on number 1 we'll
17 continue to engage portfolio companies and advocate for
18 policy and regulation. We're going to be able to develop
19 a process that is referred to as an enhanced engagement,
20 which we'll dive into in another slide. We'll be able to
21 advance the way we integrate climate within investment
22 decisions. And that was already alluded to in a previous
23 slide. And we'll be able to continue to measure and
24 report on progress, ultimately coming back to the Board,
25 presenting on the progress on an annual basis, most likely

1 in November of each year.

2 --o0o--

3 INVESTMENT MANAGER ANTONIONO: So what you see
4 before you is moving beyond engagement. This is becoming
5 more and more referred to as enhance engagement. And as
6 you can see, it's developing a process subject to
7 fiduciary duty investment analysis to exit or decrease the
8 exposure to certain securities. And I think the one thing
9 that I want to really stress here is just this aspect of
10 incurring towards this investment analysis. It's going to
11 be a vital component that -- for us to be able to focus on
12 and make sure that we're adhering to our fiduciary duty
13 during every single step of this development of this type
14 of framework.

15 But a couple of other points that I do want to
16 highlight, as I know there's probably some interest in
17 what exactly do we mean by this. Well, first of all I'd
18 like to just highlight the work that the stewardship team,
19 corporate governance team has done in the past. And you
20 know, we have had -- it's very successful. A number of
21 engagements and engagement process in place, and we'll
22 continue to be able to have that in place for years to
23 come.

24 But we also realize that, you know, there are a
25 number of different tools that are in our box, and so it

1 makes most sense for us to be reflective of everything
2 that we have and deploy, utilize everything that's
3 available to us.

4 So, as the world transitions to a low carbon
5 economy, the lack of a transition by specific companies
6 can ultimately translate to potential financial loss for
7 the fund. And it maybe makes sense in certain cases for
8 us to be able to decrease our exposure to some of these
9 companies.

10 So, ultimately -- you know, we will be coming
11 back in summer of 2024. We'll be developing a thoughtful
12 process in the meantime, to be able to utilize essentially
13 two different components, both climate analysis and then
14 also investment analysis. And then in that summer 2024
15 when we come back, we'll be able to provide much more
16 details into not only the framework itself, but also a
17 governance model and then many of the different variables
18 and metrics of consideration too.

19 --oOo--

20 INVESTMENT MANAGER ANTONIONO: Peter earlier on
21 mentioned that Mercer conducted an evaluation of our
22 pathway to Net Zero. And we did so for a few different
23 things. One, when we thought it was going to be important
24 for us to be able to get and obtain an independent
25 evaluation; and then second asked is to make sure that we

1 are actually aligned as planned -- that we're presenting
2 towards you all today is aligned with best practices.

3 Upon reflection, Mercer ultimately provided a
4 thorough evaluation and found that not only are we
5 importing -- or incorporating in best practices, but we're
6 also pursuing a plan that is well aligned to achieve
7 CalPERS' Net Zero objectives.

8 And more can be seen within the attachment as
9 well to this Board agenda item.

10 --o0o--

11 INVESTMENT MANAGER ANTONIONO: To sum up the Net
12 Zero Plan, I think it's good to be able to just reiterate
13 the fact that it will be continuing to use engagement
14 advocacy across the board. We'll be utilize engagement
15 with corporates, we'll be utilizing engagement to - I
16 don't know - amongst our general partners and our
17 investment managers. And we'll be utilizing advocacy
18 efforts across policymakers and regulators, and doing so
19 in a much more proactive way particularly in
20 climate-oriented issues.

21 On the second aspect we'll be able to develop an
22 enhanced engagement strategy which was highlighted already
23 and which will be elaborated on more thoroughly come this
24 summer.

25 And then, finally, we'll make investments that

1 meet our investment return -- risk and return objectives
2 and then ultimately help finance the low carbon
3 transition.

4 I'm going to pass it over to Mike.

5 --o0o--

6 INVESTMENT OFFICER SILVA: Michael Silva,
7 Investment Officer, Sustainable Investments. It's nice to
8 be with you again.

9 It is CalPERS' belief that we can achieve
10 stronger investment returns when companies we invest in
11 value diversity. CalPERS seeks diversity of internal
12 staff, corporate boards, and external managers in an
13 effort to secure high functioning teams that incorporate
14 different ways of seeing and solving problems.

15 We will continue to promote DEI through a variety
16 of measures, including engagement and advocacy, reporting
17 out on our emerging and diverse managers, hosting the Cal
18 list forum either events, capturing more and better data
19 from our external managers.

20 --o0o--

21 INVESTMENT OFFICER SILVA: Lenox Park is the
22 consultant that administered our DEI survey of our
23 external managers. We recently completed a comprehensive
24 opinion DEI survey, which included questions on
25 harassment, pay equity, disability, recruitment and

1 retention, and diversity across all levels. The survey is
2 to help us better understand how our external managers
3 approach human capital management. And it also messages
4 to our managers and the marketplace that we are tracking
5 this data.

6 I'm going to pass this on.

7 --o0o--

8 ASSOCIATE INVESTMENT MANAGER SELLS: Tamara
9 Sells, Associate Investment Manager, sustainable
10 Investments. My pleasure to be before you again today.

11 I'm going to touch just a little bit on our fifth
12 objective where our focus will be to promote efficient and
13 equitable financial markets through our regulatory and
14 policy advocacy work. In furthering this objective the SI
15 team will engage with our financial regulators,
16 communicating CalPERS' strategy; our federal and
17 legislative priorities; and our thought leadership to
18 these regulatory bodies, the legislature and
19 standard-setting organizations to address material
20 long-term sustainability risk and public policy that's
21 driving long-term value creation.

22 We will increase our advocacy efforts around
23 climate risk -- climate risk and disclosure and also drill
24 down further on evolving human capital trends, including
25 the intersection of climate and human capital and

1 responsible sustainable business practices.

2 --o0o--

3 ASSOCIATE INVESTMENT MANAGER SELLS: With the
4 focus on the quality and quantity of corporate reporting
5 we will advocate for disclosures of climate and human
6 capital management metrics and broader reporting
7 requirements that will strengthen our understanding and
8 ability to achieve our targeted investment returns through
9 managing risks and opportunities. We will engage the SEC,
10 and focus on accounting modernization with accounting
11 standards boards, global sustainability disclosure
12 standards, as well as pursuing a more proactive approach
13 with targeted engagement with new regulatory bodies that
14 we have not engaged with before, including the California
15 Air Resources Board and the California Public Utilities
16 Commission.

17 So we'll be moving from a more
18 comment-letter-driven approach to a more proactive
19 engagement with these regulators.

20 --o0o--

21 ASSOCIATE INVESTMENT MANAGER SELLS: Our human
22 capital focus areas will include the development and
23 adoption of U.S. Disclosure standards, exploring
24 opportunities for integration of human capital data, and
25 mitigation of material risks to the portfolio guided by

1 our CalPERS labor principles.

2 --o0o--

3 ASSOCIATE INVESTMENT MANAGER SELLS: On the
4 stewardship front, we will continue to use proxy voting
5 company engagement and shareholder campaigns to hold
6 companies accountable and drive positive changes, mitigate
7 risks to the portfolio. And climate diversity and
8 governance will be the stewardship-focus areas, and you'll
9 get further updates from our corporate governance team on
10 the progress on that, which is typically done in March.

11 --o0o--

12 ASSOCIATE INVESTMENT MANAGER SELLS: Lastly, this
13 is just a reminder of all of the sustainability reporting
14 and assessments that are completed by this team, we work
15 in collaboration with the asset classes to ensure that
16 these investment-related reports and assessments are
17 completed in a timely fashion. We also have committee and
18 strategic -- committees that we sit on as well as
19 strategic partnerships that we'll continue to use as
20 levers to move the SI strategy forward.

21 --o0o--

22 MANAGING INVESTMENT DIRECTOR CASHION: As I
23 mentioned earlier, we've developed targets and KPIs for
24 each one of the five objectives. So then the left side
25 you have the five items that we've walked you through.

1 Now, on an annual basis at least we will report
2 back typically in November on these items.

3 We did color code them in two different -- green
4 and yellow. So the green is the new KPIs. So these are
5 ones that we've newly developed.

6 And let's just say that a lot of these were
7 already existing; but we've in some cases updated the KPI.
8 So I think this will be really important for us to
9 measure, monitor, and report back. And as I said, we'll
10 do this on an annual basis.

11 --o0o--

12 MANAGING INVESTMENT DIRECTOR CASHION: In terms
13 of next steps, so we're presenting -- we'll begin
14 implementation in November of the 2030 strategy. We will
15 return in March and present the review from the
16 Responsible Contractor program, which is well underway at
17 this point.

18 And then beginning November 2024, and annually
19 thereafter, we'll provide updates on the strategy itself.

20 So that concludes our presentation. I think we
21 were even more efficient than I thought. So -- because
22 there was a lot of material.

23 But just as we close, I'll just leave those three
24 words with you: Hundred billion, resilience, equity. I
25 think it's a good way to kind of cap it off and keep it

1 handy.

2 Thank you.

3 CHAIRPERSON MILLER: All right. Thank you.

4 Thank you to the whole team.

5 And we have some eager board members here with
6 questions.

7 So we'll start with Director Pacheco.

8 COMMITTEE MEMBER PACHECO: Thank you. Thank you,
9 Chairman Miller. And thank you, Peter and team, for your
10 awesome presentation here.

11 I'd like to go right into it. So on page 8 of
12 28, to increase the portfolio resilience. I'm really
13 impressed by this.

14 How do you see the recently enacted legislation
15 of SB 253 and SB 261 play out with our increased portfolio
16 resilience objectives in our sustainable investment 2030
17 strategy? Do you see an alignment here? Your thoughts
18 would be greatly appreciated.

19 MANAGING INVESTMENT DIRECTOR CASHION: Thank you,
20 Mr. Pacheco. Yes, very much in alignment. In fact, it's
21 critically important that we have disclosure of emissions
22 by companies. And so this is a really positive step
23 forward in that regard.

24 And it will make the job of identifying where
25 risks may exist much easier.

1 I'll see if Travis has anything to add on that.

2 INVESTMENT MANAGER ANTONIONO: Yeah, as we seek
3 different investors across the world, it demonstrates once
4 again just the leadership that CalPERS and particularly
5 California actually has within the role it plays within
6 the greater financial markets and also outside of the
7 markets as well.

8 You know, this is one prime example of that,
9 because time and time again I've been hearing and being
10 reached out to by a number of institutional peers, asking
11 how this is going to be effective, what type of changes
12 might come about from future legislation as well.

13 And I will say that most are seeing this as
14 California being a champion, taking -- going above and
15 beyond then perhaps what even other regulators are
16 considering at this point in time.

17 I think the scale of it is quite significant,
18 meaning up to 5,000 different companies are going to be
19 getting affected by this, both on the public side as well
20 as on the private side as far as the number of companies
21 that are above a billion dollars that deal business with
22 California. So I think that speaks very loud -- very much
23 towards just how pervasive this is going to be towards
24 affecting the greater financial markets and making
25 something that is -- something that we all strive to do

1 something that is just best common practice.

2 Which ultimately is going to be very much a good
3 thing to make sure that we have much more accurate data;
4 and then that will also lend into having an increase in
5 the data that feeds into other participation and
6 partnerships such as EDCI, which you mentioned earlier
7 today.

8 COMMITTEE MEMBER PACHECO: Very good. Thank you.
9 Thank you very much for that, Travis.

10 My next question is on page 13 of 28, Diversity,
11 Equity & Inclusion. And with respect to utilizing
12 advocacy to promote the regulatory requirements for more
13 DEI disclosure such as at the federal level, for instance,
14 the S-2007, improving corporate governance through the
15 Diversity Act of 2023. I think it's authored by Mr. --
16 Senator Robert Menendez. It is necessary to promote
17 inclusion and representation in this space.

18 How do you see our DEI leadership in this aspect
19 in terms of additional legislation around this? If you
20 guys can elaborate on that.

21 ASSOCIATE INVESTMENT MANAGER SELLS: Thank you
22 for the question.

23 So you're absolutely right. We will continue to
24 work in collaboration with our Legislative Affairs
25 Division to be able to assess as these bills and the

1 legislations are rolling out with respect to expanding DEI
2 disclosures and improving corporate governance. We will
3 be focused not just at the board level on those DEI
4 disclosures but also workforce disclosures as well.

5 COMMITTEE MEMBER PACHECO: Wonderful.

6 And my last question is on page 15 of 28,
7 improving the financial markets. With respect to building
8 and promoting efficient and equitable financial markets
9 through advocacy and regulatory action, including the
10 promotion of responsible business practices for workers,
11 what other trends may you foresee from our present focus
12 on the evolving human capital trends such as labor
13 constraints and demographics may spur in this
14 conversation? Perhaps a thought on additional metrics
15 associated with the accounting -- the accounting issues
16 around labor. You know, they have those -- currently we
17 only include the -- in the United States the general
18 selling and administrative. Perhaps that one might be
19 expanded later and to include more robust statistics on
20 labor. Your thoughts on that. And how do you think our
21 strategy can play into that?

22 ASSOCIATE INVESTMENT MANAGER SELLS: You're
23 absolutely correct. So our strategy around these
24 disclosures is to start advocating for a baseline of
25 disclosures. Right now we don't have any universal

1 disclosures, which makes comparability extremely
2 difficult. So starting with the baseline metrics, we've
3 been promoting four labor-related metrics through our
4 partnership -- strategic partnership with the Human
5 Capital Management Coalition. Getting a start will help
6 us then drive more disclosures and more progress later on.
7 But this is just to get our baseline. So that would
8 include turnover, for example, workforce demographics,
9 total workforce cost. And so that drills down on the
10 accounting piece that you were asking about. And then
11 also those DEI disclosures.

12 COMMITTEE MEMBER PACHECO: And as a follow-up, we
13 will be coordinating ourselves with the -- with the
14 accounting bo -- the accounting board -- sorry -- the
15 accounting regulatory boards that are in charge of this,
16 right. Because I believe in the past they've had some --
17 they've been very neutral on this subject matter. And I'm
18 hoping that our leadership and our strategy here can move
19 things forward in that respect.

20 ASSOCIATE INVESTMENT MANAGER SELLS: That is
21 correct. So with both FASB as well as the IASB; we will
22 be working with both accounting standards that are -- to
23 try to expand the accounting piece specifically around
24 those total workforce costs and just aggravation of those
25 costs so we can actually attribute them to, you know: Is

1 it development, is it turnover? So, yes, you will see
2 some drill down there with both of those accounting
3 standards boards.

4 COMMITTEE MEMBER PACHECO: Thank you so much.

5 ASSOCIATE INVESTMENT MANAGER SELLS: Thank you.

6 COMMITTEE MEMBER PACHECO: Appreciate it.

7 CHAIRPERSON MILLER: Okay. Director Willette.

8 COMMITTEE MEMBER WILLETTE: Thank you so much.

9 So I just wanted to thank you, Peter and team and
10 everyone, for this report. I really like seeing the
11 incorporation of the feedback that was discussed in July.
12 That is really, really positive, and I appreciate that.

13 I was really excited to read this report. And
14 according to my CalPERS news alerts, a lot of people were
15 excited to read this report. So I'm glad we're having the
16 discussion today. I'm looking forward to seeing the
17 implementation and staying updated, you said every
18 November at least. And then we have different other kind
19 of timelines in there.

20 With, you know, revisions, new initiatives, I
21 want to make sure, as you said, we stay best in class; and
22 that doesn't become a stale kind of document that we're
23 looking back towards and not forward thinking.

24 There's a lot of good stuff in here. And I have
25 a couple of questions and some pieces that I want to

1 elevate.

2 The first is just as a standout. I would like to
3 see us setting expectations for emissions reductions by
4 2030 as well as other medium- and long-term benchmarks.
5 That would help track progress and help us know which
6 asset classes specifically, if we can delineate by asset
7 class, are on track to meet the 1.5 degrees and which
8 classes need to do more, right.

9 So I think those benchmarks would help us going
10 forward.

11 Looking at pillar 1. So of course allocating
12 capital towards climate solutions makes sense. I
13 appreciate the vision here.

14 Couple of questions. On slide 5, there's a
15 bullet that "We will develop asset class Sustainable
16 Investment plans that will identify thematic and
17 managers." So one set of data points. What I would
18 appreciate, and I think would help us identify themes, is
19 if we could again identify the top like 10 or 15 biggest
20 polluters in each asset class, and then what is the plan
21 to get those biggest polluters to reduce their emissions
22 frankly. That would be helpful.

23 On slide 6 - yeah - for the mitigation strategy,
24 the -- or the mitigation substrategy of the strategy, to
25 reduce or enable the reduction of GHG emissions at scale.

1 So my question is, how will those emissions
2 reductions happen across all the different asset classes?
3 And maybe we need to come back with that information, or
4 if you have a short response.

5 MANAGING INVESTMENT DIRECTOR CASHION: Okay.
6 Thank you very much.

7 So let me take those in order. Regarding your
8 first comment/question regarding the 2030 reduction in
9 carbon intensity of the portfolio. So we will -- we do
10 have a 2030 target, which is to reduce by 50 percent the
11 carbon intensity of the portfolio. We don't have a 2040;
12 we do have a 2050, which was announced in December 20 --
13 2019 of Net Zero.

14 We have asset-class-level investment plans. But
15 at this point we don't really -- we haven't -- we don't
16 have formal targets for decarbonization by asset class.
17 That will be something we could look into. But we --
18 yeah, we really are looking more at a portfolio basis at
19 the moment, because that is where you're really summing
20 everything up.

21 Regarding your comment on slide 5, regarding the
22 largest emitters, so there we already are very active in
23 engaging with those largest emitters, both through our
24 Corporate Governance unit but also Climate Action 100. So
25 that's a well established level of engagement.

1 The interesting element of the 2030 strategy is
2 that in addition to just engaging, we will also look more
3 deeply into the individual companies to see where are the
4 investment opportunities to promote those companies that
5 have chosen to put themselves on a lower carbon
6 trajectory; and that can translate into outperformance.
7 To do that, though, they'll need capital. So this is --
8 introduces a good opportunity both -- for CalPERS both in
9 the private markets and the public markets to finance that
10 transition from brown to green; because it's one thing to
11 engage and advocate, but it's something more powerful if
12 we can actually finance that work.

13 And then slide 6 on the mitigation, so -- sorry,
14 can you repeat that question.

15 COMMITTEE MEMBER WILLETTE: Yes. How can we
16 reduce the emissions or target the emission reductions
17 across all the different asset classes? Like how are we
18 doing it to making sure that each asset class is doing
19 that?

20 MANAGING INVESTMENT DIRECTOR CASHION: Right. So
21 part of the hundred billion investment will be -- make an
22 important contribution to that, because 55 billion will be
23 incremental investments. So -- then that will be divided
24 across all asset classes. And not surprisingly, those
25 investments have a lower carbon intensity than our overall

1 portfolio. So an important piece or benefit of having
2 this plan is that by investing in that manner, we will
3 reduce the overall intensity -- carbon intensity of the
4 portfolio.

5 Team, anything to add or complement.

6 INVESTMENT MANAGER ANTONIONO: I think on the
7 last point, I think the integration component and then the
8 engagement with actual investment manager, the general
9 partner is also vital. And the reason behind that is that
10 fortunately I guess what tell when that's going to be on
11 the aspect of decarbonization is just the fact that energy
12 is becoming more and more expensive. And so there's been
13 much more of a financial point now without even a price on
14 carbon to be able to take steps to be able to provide that
15 capital expenditure to be able to lower your energy cost.
16 And those steps are very much in alignment with the
17 hundred billion dollar and many other types of investments
18 that we'll be able to pursue.

19 I'm still with it or not?

20 It's us doing it directly or one of our
21 underlying portfolio companies that already exist across
22 public equities or private markets. They're going to be
23 making investments themselves as well to be able to
24 further provide better value proposition for themselves.
25 But then the byproduct of doing so is actually

1 decarbonizing their own company. So that's one tailwind
2 we do have, you know, with us.

3 The other aspect that I would highlight is that
4 though you can do asset-class-based decarbonization or
5 asset-class-based accounting and that is done and we have,
6 you know, done that largely, as far as setting targets and
7 goals, it's typically best practice just to be looking at
8 the industries or the sectors instead, understanding that
9 some sectors will cut -- you know, actually most sectors
10 will cut across many different asset classes, whether it
11 be private debt, whether it be public or fixed income, or
12 whether it be private equity as well. And there might be
13 more constraints based upon the industry or the sector
14 than there would be based upon one asset class versus
15 another asset class.

16 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: I
17 would just jump in with one quick distinction that I want
18 to clar -- because I -- one of the things that I don't
19 think this team wants to pat themselves on the back, but I
20 think that what this team has come up with is something
21 that's really thoughtful.

22 If you think about decarbonizing the portfolio,
23 there are two reservations that I think I have with just
24 decarbonizing the portfolio. Number one, it's just your
25 portfolio and it's not the economy. And what we care

1 about, right, is the decarbonization. And through the
2 lens of decarbonization, we really care about
3 decarbonizing the economy.

4 Climate solutions leans towards decarbonizing the
5 economy.

6 The second thing is that if you just decarbonize
7 the portfolio, I think you probably miss some
8 opportunities that are in the place where the
9 decarbonization of the economy and our investments sort of
10 align. And so what we're looking at much more is not just
11 decarbonizing the portfolio but actually leaning into
12 opportunities that we think would generate outperformance.
13 And the way that they calculated it, then my question to
14 the team was, "Okay, what does this mean to the ones of
15 decarbonizing of the portfolio? And it was a really
16 positive byproduct, that we do get to more than 50 percent
17 by 2030. But again the emphasis is on leaning into
18 opportunities and the decarbonization of the portfolio
19 happens to go with it. But I actually think it's a
20 really -- it's a nuance but it's a really thoughtful
21 nuance and I think this team has done a really nice job
22 of. So I did just want to kind of underscore that.

23 COMMITTEE MEMBER WILLETTE: Thank you. I
24 appreciate that. I really love leaning into
25 opportunities. We have in decarbonizing the economy where

1 it aligns with our portfolio; and in financing the
2 brown-to-green transition. So...

3 But just bear with me as a follow-up. How are we
4 going -- and maybe this is also -- I'm cross-pillaring
5 here. So how are we going to deal with portfolio
6 companies or asset managers who are not making meaningful
7 progress to meet our goals, whether that is, you know, to
8 decarbonate the portfolio or the econ -- you know, the
9 economy, which go to hand in hand? So there's that
10 question. And if you want to respond or...

11 MANAGING INVESTMENT DIRECTOR CASHION: Well,
12 certainly on the public-company side this is already been
13 actively done. So we're engaging with those. I think as
14 we go forward, and we look at our enhanced engagement, we
15 will evaluate if there's a financial risk to staying
16 invested in that company at the same level. And
17 fundamentally they'll be driven by valuation. And does
18 that company present a higher financial risk because it
19 hasn't gotten on board with this transition. And then we
20 can look at that at a company level.

21 We would expect that our general partners in the
22 private equity space to similarly undertake such analysis.
23 And this is really going to be facilitated by, first,
24 greater disclosure in the public markets, to Mr. Pacheco's
25 earlier comment. But also through our work with the EDCI,

1 the data convergence project. Now more data's available
2 in the public mark -- sorry -- private markets to allow us
3 and the GPs to make that determination.

4 So I think it's really just good business. So we
5 want to align with companies and GPs that are following
6 that practice.

7 COMMITTEE MEMBER WILLETTE: Okay. Thank you so
8 much.

9 Yeah, I'm a believer that policymakers follow
10 trends. And I think the SB 253 and 261 are definitely
11 symbolic of the fact that CalPERS and others were leading
12 on this work, and now we might as well put it into a
13 policy for those disclosures. So I'm excited about that.

14 A comment in regard to pillar 3 is -- I just want
15 to make a comment. The team has our full -- my full
16 support with accountability efforts to place demands on
17 emitters. I think we're doing that already well and the
18 engagement well.

19 A comment on pillar 4. I think I'm getting my
20 pillars right.

21 Okay. For diversity and inclusivity, it's really
22 important I think to achieving our goals. I want to Thank
23 you for recognizing that diversity has to be part of the
24 solution with our portfolio companies, their boards and
25 also internally. I'll leave that.

1 But I stated earlier also that I think metrics
2 are critical to doing the work. And I want to make sure
3 that tracking though isn't the end. Right? That tracking
4 is a means to achieving benchmarks and objectives, and
5 that we do have those benchmarks and objectives with
6 regards to diversity and inclusivity.

7 I'll get to a question here. So I'm pleased to
8 see the engagement of -- the use of engagement and
9 shareowner rights to implement corporations to take
10 action. I think there's one on our strategy under
11 "Diversity."

12 And I do wonder if it's time to update our proxy
13 voting policy. Do we have on the calendar coming up a
14 review and update of our proxy voting policy?

15 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: We
16 have a review of the Total Fund Policy that will be in
17 March and then June. And we can certainly include the
18 governance sustainability principles in that. I mean
19 we -- you know, today's work was to incorporate the labor
20 principles into those principles.

21 But certainly we can calendar that as
22 appropriate.

23 COMMITTEE MEMBER WILLETTE: So through the Chair
24 I'd like to request that, if possible.

25 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: So

1 we'll take that as Chair direction.

2 COMMITTEE MEMBER WILLETTE: Thank you.

3 On the workforce capital pillar, pillar 5, so I
4 think I think it was page 15. Oftentimes during reviews
5 and strategy discussions like this, we naturally highlight
6 and think about the deltas and we overlook the things that
7 we're already doing really, really well. And so I just
8 wanted to make sure that we have highlighted and we
9 broadcast that clearly, that -- what we're doing well.
10 We're already engaging, right. So I see it's not on here
11 and that maybe we need to be more explicit like we were
12 with pillar 4, that we're engaging with companies.

13 I think it's important that we broadcast because
14 we -- as we heard testimony today, we heard it last
15 September, and I actually think every meeting I've been to
16 since I was elected to this board I have heard testimony
17 from workers stating that there are huge workforce risks
18 at these companies that we are invested in that we have to
19 mitigate in order to be able to pay benefits now and into
20 the future.

21 So, again to be really explicit, just like we
22 stated on pillar 4, the use of engagement and shareowner
23 rights to influence corporations take action, I know we're
24 already doing it under pillar 5. But I think we should be
25 explicit in doing so. I think it's also listed in page 16

1 in the chart. But it's not listed as a strategy.

2 And then I would also like to see us work with
3 our stakeholders. Again, I believe it's listed in the
4 chart on page 16, but it's not listed as a strategy. And
5 I know we're already doing it. So it's just doubling down
6 on the good work that we're already doing. We want to
7 find ways to establish industry norms where workers can
8 verify also the data reported to us.

9 I like adding the new KPIs on page 20. I
10 appreciate the color coding for those of us who like color
11 coding. But I also think we need to add an additional KPI
12 related now to our labor principles, which we just adopted
13 this morning. So no one's behind or anything, but
14 recognizing that we're moving in our organic environment
15 here.

16 And I want to just uplift, as someone who's been
17 a member of CalPERS, contributing for over 10 years, which
18 is like not a lot for some of you all. But I'm just
19 really proud the role, that leadership role that CalPERS
20 has taken in this space. I think if it wasn't for CalPERS
21 we would not see SB 253, we wouldn't see 261, we wouldn't
22 see others -- others doing what they're doing. And so I'm
23 really proud of that work, and thank you to the team.
24 Before us, the team broadly is out there in the world.
25 Appreciate that. Thank you.

1 That's all I have.

2 CHAIRPERSON MILLER: Okay. Thank you.

3 Next we have President Taylor.

4 VICE CHAIRPERSON TAYLOR: Oh. Thank you very
5 much.

6 So great report, you guys. I've read it a while
7 ago and I was just very impressed. I'm extremely happy
8 we're moving in this direction. And I just want to say
9 that great ideas. I think this is all really exciting to
10 watch us implement and watch us become successful with
11 this.

12 I had a couple of questions, and I think it was
13 Mr. Pacheco that brought it up. He was talking about the
14 accounting. So having -- I'm on the board of another --
15 of ICGN, which international, right. So they're already
16 working on accounting standards for all of this stuff,
17 right. I think they're required to by their governments,
18 which we are not.

19 Is there -- I heard you say that we're working
20 with GASB and -- FASB, yeah. That -- wasn't there another
21 organization that was specifically for climate? Was it
22 SASB?

23 INVESTMENT MANAGER ANTONIONO: Yes. And SASB has
24 been rolled over. So ISSB.

25 VICE CHAIRPERSON TAYLOR: Oh.

1 INVESTMENT MANAGER ANTONIONO: So there's been
2 some roll-ups. But ISSB has issued guidance both on
3 sustainability factors and disclosure, as well as another
4 set of guidance specifically on climate.

5 VICE CHAIRPERSON TAYLOR: That's what I thought.
6 Okay.

7 So that's something you guys are using as well.

8 INVESTMENT MANAGER ANTONIONO: And it's largely
9 adopted and being followed, and many other organizations
10 are embracing the ISSB guidance. And so the vast majority
11 of the world as far as from a reporting standpoint will be
12 utilizing that as a standard.

13 VICE CHAIRPERSON TAYLOR: So we have a standard,
14 Yay. That's something we --

15 INVESTMENT MANAGER ANTONIONO: I won't go as far
16 as to say a universal standard. But it's one of a few
17 different standards now. Consolidation perhaps is a good
18 thing, yeah.

19 VICE CHAIRPERSON TAYLOR: Getting closer.
20 Getting closer. That's a good thing.

21 So I wanted to ask if we could do a couple of
22 things. One was on pillar 2, I don't know if Mullissa
23 already talked about this. "Call out the interplay
24 between workforce DE&I and Net Zero. And how the three
25 forms of capital working together, aligns together, leads

1 to more resilience."

2 I think fully supporting that alignment would
3 help us move forward.

4 And then, again I just want to say that I think
5 we did -- you guys did a really, really good job with
6 this. Can't wait to see as we move forward what those
7 measurements are. I had mentioned earlier today that I
8 wanted to see - and I think Ms. Willette had also talked
9 about it just now - I wanted to see some measurements in
10 the work -- the labor issues and the implementation and
11 how we're implementing it, what's the success of that
12 mean, because I don't think we even thought of that. So I
13 just want to reiterate that.

14 So Thank you very much.

15 CHAIRPERSON MILLER: Okay. Next, Director
16 Middleton.

17 COMMITTEE MEMBER MIDDLETON: Thank you. Thank
18 you all. This was a truly outstanding report to receive
19 and some incredibly strong messages.

20 So I want to turn things just a bit. Our
21 critics - and unfortunately we have quite a few of them -
22 are going to argue that this is not an investment strategy
23 but a strategy that's motivated by goals that do not
24 necessarily have to do with the rate of return that we're
25 going to receive.

1 So you can take as short or as long an answer as
2 you want, but to those who would argue that this is not
3 the best use of our funds and our investment strategy,
4 what would be the answer.

5 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

6 Peter, maybe I'll take a first crack at it, and
7 then I'll turn it to you.

8 As someone who spent his career here as an
9 investor beginning in the equity markets, that's why I
10 drew the nuance to the previous question, is that there
11 are investment strategies that are grounded in having a
12 social impact. I actually view this one - and one of the
13 things that I'm so proud of our work on this - is that
14 this is about leaning into places where we think there are
15 opportunities.

16 We can go more into closed session, we can talk
17 more in closed session. We plan to.

18 But I will tell you, many markets, equity markets
19 for sure, they do -- public equity markets do a pretty
20 good job of pricing risks, in my opinion, in the three
21 months, maybe six months, even out to 12 months. But they
22 do a pretty poor job of pricing long-dated risks. The
23 things that we're talking about leaning into are places
24 where we have underpriced risks, basically underpriced
25 optionality that we can lean into, and over time lean into

1 the winners and lean away from the losers. And that's in
2 the public equity part of the portfolio, that's in the
3 private assets part of the portfolio. Over time that'll
4 be in the fixed income part of the portfolio. But this is
5 grounded in -- as Peter said, this is about generating
6 returns and going in a direction that -- we've talked
7 about the regulatory environment -- going in a direction
8 that the environment is going in and trying to go there --
9 go to where the puck is going to be, so to speak.

10 MANAGING INVESTMENT DIRECTOR CASHION: Critics
11 will say that investors should only focus on economically
12 relevant factors. And to that I actually fully agree.
13 And in fact, climate and transition to low carbon economy
14 is incredibly economically irrelevant. In fact, we are
15 going through a real economic fundamental shift in the
16 economy as we transition to lower carbon. So as an
17 investor, both from an opportunity set but also a risk
18 mitigation set, it's so critical that you're aware of
19 these not only in a broad-base portfolio, but individual
20 asset classes and individual investments. So to do so
21 would be really missing, on one hand, opportunities and,
22 the second, assuming risks that you are not aware that you
23 have.

24 So really there's going to be winners and losers
25 that come out of this transition. And frankly, all

1 investors have some of those in their portfolio today.
2 The critical piece is that we identify as early as
3 possible who are going to be the winners - and it can be
4 industries or sectors as well, not just individual
5 companies. And who are those that are more at risk?
6 Particularly sectors.

7 So for us, you know, to do otherwise would really
8 not be playing our fundamental roles, an investor, and
9 fulfilling our fiduciary duty. So that's why for us this
10 is so exciting. Because we believe we're still in the
11 very early stages of this game and that by having this
12 strategy, by having each of the asset classes focused on
13 it, and tapping into that opportunity, we will have a much
14 broader-based set of opportunities and result in this
15 outperformance.

16 Team, I don't know if you want to add.

17 COMMITTEE MEMBER MIDDLETON: All right. Thank
18 you.

19 Personally I could not agree more. I think
20 history is incredibly important, and always we need to use
21 data to drive the decisions that we are making.

22 But our responsibility is to make calculated
23 responsible decisions as to where the market is going.
24 And there is every reason to believe that the energy
25 sources that drove the 20th Century are not going to be

1 the energy sources that are going to be the primary
2 drivers of the middle and latter half of the 21st Century.
3 And so I'm very proud that we're making these kinds of
4 calculated efforts to invest where there are going to be
5 winners.

6 Thank you.

7 CHAIRPERSON MILLER: Okay. Next we have Frank
8 Ruffino for Fiona Ma.

9 ACTING COMMITTEE MEMBER RUFFINO: Thank you, Mr.
10 Chair. And Thank you to the team for your hard work and
11 for this great report, as has been said over and over.
12 And it is.

13 So I want to begin to say that Treasurer Ma has
14 long been an advocate, as you all know, for more
15 aggressive climate action, not only here at CalPERS but at
16 CalSTRS as well. This Sustainable Investment 230 strategy
17 that was presented at the off-site in July has a lot of
18 strong principles and good guidance. And today is you
19 coming back to the Board with further details and updates.
20 We hope that this strategy crystallize CalPERS' plan to
21 reach Net Zero by 2050 through a structured analytical
22 framework to account for high-emitting companies in the
23 portfolio that showed little interest in working towards
24 the world's shared climate goals.

25 CalPERS has been a leader in responding to the

1 material risks related to climate change. And for that,
2 CalPERS should be commended. But strong climate risk
3 management requires - which is very important for the
4 treasurer - transparency and accountability. Concrete
5 planning and robust corporate governance. This strategy
6 is a significant bold step in the right direction.

7 The strategy must include clear, transparent
8 guidelines, defining which investments are considered as
9 climate solutions, and ensure that climate risk disclosure
10 and management is included in the process for selecting
11 and evaluating external asset managers and private equity
12 firms, which includes and establishing a robust climate
13 risk guidance for hiring, engaging and evaluating all
14 external asset managers.

15 So 2030, it's just seven years away. It seems to
16 be that far away. And I know we have committed today the
17 big word that you started with, a hundred billion.
18 Although we already committed 47 billion. So 50 plus for
19 the next seven years, by 2030. Which means approximately
20 7-and-a-half billion a year.

21 Now, I've attended conferences and educational
22 opportunities which they've said that this space, the
23 opportunities in this space are in the trillions.

24 So three quick questions:

25 Number one, how did you come up with this very

1 round number of a hundred billion?

2 Number two, is this ambitious enough? Not sure.

3 And number 3, how is CalPERS ensuring that its
4 portfolio companies align with that target?

5 MANAGING INVESTMENT DIRECTOR CASHION: Thank you
6 for the comments, Mr. Ruffino, and the questions.

7 First, before I jump into the three questions,
8 let me just confirm that in terms of defining climate
9 solutions we fully agree. So there it's the adaptation,
10 mitigation, and transition, as we showed. And we also
11 agree that in terms of engagement with companies through
12 public markets but also GPs, that climate risk
13 requirements assessments are very important.

14 Now, and to your three questions.

15 So a hundred billion. Yes, it's a big number
16 and, yes, we're already at 47 and a half. So we actually
17 had significant debate internally on this. Because we
18 wanted something that's really ambitious and achievable.
19 But more importantly, we wanted it to meet with the real
20 objectives of the fund, which is, one, to generate
21 outperformance and, second, to improve resilience. And
22 given the opportunities we really believe that that
23 hundred billion will translate into outperformance by
24 tapping into these new opportunities.

25 We could -- we did debate smaller and larger

1 numbers. I believe that we will exceed that target by
2 2030. But we also -- we don't want to constrain people's
3 investment decisions. We don't want a target that would
4 restrict. Originally, we looked at having investing only
5 in low -- an index that was essentially low carbon. So
6 all it did was tilt away from high emitters. But what we
7 realize is that it avoids -- or that presents two
8 problems. One, we don't finance the transition for the
9 broader economy. We just cause medically improve our own
10 portfolio. And we didn't feel that that was right. So we
11 wanted to have more investment including transition.

12 And so that's how we essentially landed on a
13 hundred billion number. And I think in a debate when some
14 people say it's too high, some people say it's too low,
15 then probably that upper middle point is a good one.

16 Is it enough? So, indeed we do see that -- and
17 those who presented in July, there was a 3 trillion
18 estimated need to finance transition annually over the
19 next years. So, not that all that of course is bankable
20 but there is a certainly enormous opportunity.

21 And we -- and I think this is where it also comes
22 into play bringing other investors, other asset owners
23 with us, in terms of making them aware of these
24 opportunities. And also even making other market
25 participants aware. So that it's not just our dollars at

1 work but hopefully others. And we take a very active role
2 in terms of presenting at conferences and advocating,
3 engaging with regulators to go beyond just the dollars
4 that we can bring, given how much need there is and that
5 it's well beyond the ability of an asset owner, our own
6 balance sheet.

7 And in terms of ensuring alignment, so that
8 was --

9 ACTING COMMITTEE MEMBER RUFFINO: How's CalPERS
10 ensuring that its portfolio companies align with that
11 target?

12 MANAGING INVESTMENT DIRECTOR CASHION: Right.

13 ACTING COMMITTEE MEMBER RUFFINO: And by the way,
14 a hundred billion, I don't have no clue. I've never seen
15 it. So I get it, that's a big --

16 MANAGING INVESTMENT DIRECTOR CASHION: Right.
17 So -- yeah, I think, you know, it will really be up to us
18 to make the investment allocation decisions to invest it
19 in a way that prudently takes us toward that number.

20 Now, in terms of alignment, usually there we're
21 thinking on alignment with a Net Zero pathway. And not
22 only will the companies in this hundred billion but more
23 broadly we will be encouraging them to be on a pathway
24 towards Net Zero. That's particularly relevant for public
25 companies where we engage with them.

1 And to some earlier comments on engagement, last
2 year over 300 -- the corporate governance team engaged
3 with over 350 companies in our public equity portfolio,
4 representing more than 50 percent of the assets. So
5 that's something that will be further continued, and
6 climate and emissions is always a topic in those
7 engagements.

8 ACTING COMMITTEE MEMBER RUFFINO: Well, thank you
9 for that, and thank you for qualifying that perhaps, you
10 know, we may go -- we may exceed by 2030 it'll be a
11 hundred million. We don't -- we're not going to be
12 holding ourselves --

13 MANAGING INVESTMENT DIRECTOR CASHION: We won't
14 constrain ourselves to go below if we're at 99. But, you
15 know, we only do some -- as I say regularly to the
16 management team, we should only invest if we think this is
17 a good investment and it's at least as good or better than
18 any comparable - that's what we lead with, because we
19 really take this outperformance aspect seriously - and
20 that we're not investing to achieve some ulterior -- other
21 motive even if it's something great like reducing
22 emissions. But fundamentally we're there to invest to
23 make the highest risk adjusted return.

24 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: I
25 think I would just add a couple of quick things. One is

1 that the way that outperforming it, like beating the
2 target would look like, is probably it would look like
3 getting at a hundred billion sooner than 2030, getting
4 there by 2028, 2029. And if that were the case, then we
5 would look to basically increase what the number is that
6 we're shooting for. And as I say -- as Peter said, there
7 was a lot of debate about this number, because we do think
8 that it's ambitious but it's achievable.

9 The other thing is that -- to your question on
10 the monitoring the footprint, I mean you will see that
11 under the second one under pathway or Net Zero on slide 20
12 is an annual report on the carbon footprint.

13 INVESTMENT MANAGER ANTONIONO: And the only other
14 I think that I've mentioned is the fact that there aren't
15 many peers that are even having targets such as this; and
16 essentially, you know, in the United States none at all to
17 this type of scale. Even outside of the United States,
18 there's only a couple out there that are even coming close
19 and, frankly, the size or projected size of those firms
20 are going to be larger than our own -- than even us.

21 Additionally, what they count as climate
22 solutions is a bit more loose than what we have from our
23 methodology. So we've purposely, you know, constricted it
24 and made sure that it is much more of a pure type of a
25 definition as well.

1 The other aspect that I would say is that over
2 the next 10 -- you know, five years, seven years that we
3 do expect a number of other firms to be able to come out
4 and publicly state goals of investing into the transition.
5 In fact I think that largely most financial mar -- market
6 participants will transition away from just exclusively
7 focusing in on the greenhouse gas emissions of the
8 portfolio and instead understanding what are they actually
9 doing or what is their portfolio doing to be able to help
10 finance the decarbonization effort of a real world -- the
11 real economy.

12 So perhaps we're early on, but hopefully this
13 will inspire others as well to be able to also make public
14 announcements.

15 ACTING COMMITTEE MEMBER RUFFINO: Thank you to
16 the team and thank you, Mr. Chair.

17 CHAIRPERSON MILLER: Thank you.

18 Next we have Director Ortega.

19 COMMITTEE MEMBER ORTEGA: Thank you, Mr. Chair.
20 Just a couple of quick questions. And, again, I also want
21 to thank you for the great report. I really appreciate
22 how straightforward it is. It's very clear, easy to
23 understand and grasp kind of the key points.

24 I do want to second Ms. Willette's request for
25 asset-class-based information. I think that will be

1 helpful. I'm just thinking about our conversation this
2 morning about the ALM in two years. I think that is
3 information we would want to be thinking about in that
4 context and knowing what kind of decisions we're making in
5 two years and how that affects the targets and the overall
6 goals of this proposal.

7 The other thing that I would hope to be able to
8 see more detail on, the KPI page. That slide's very
9 helpful on a sort of overall what we're going to be
10 measuring, and I think it's a good starting point. But I
11 don't know what the plan is for bringing more detail back
12 to the Board, but I would like to understand more what the
13 baselines are, what the targets are and sort of what's the
14 cadence of getting information about where we are on those
15 items going forward. So that would be information I'd
16 like to see come back as well.

17 Thank you.

18 MANAGING INVESTMENT DIRECTOR CASHION: Okay.
19 Thank you.

20 Regarding the KPIs, we will be reporting back
21 annually I believe for most of them, if not all.

22 But, yes, we're happy to look into more
23 granularity and specifics. Frankly, we had quite a few
24 here. So -- yeah, we didn't want to run out of space or
25 provide kind of an -- too much information.

1 And then we will also be -- in terms of the asset
2 class level information, in the following session today
3 we'll be getting into more detail on how this breaks down
4 amongst the asset classes.

5 CHAIRPERSON MILLER: Okay. Well, Thank you very
6 much. Superlative job with the presentation and dialogue.
7 Really appreciate it. And again very encouraging. We
8 look forward to all the progress going forward.

9 At this point I have quite a few people who want
10 to provide public comment; and so I'll be making sure we
11 get everyone.

12 So I will start -- let's see, first I've got J.J.
13 Jelincic for Item 6d.

14 J.J. JELINCIC: Dave, you may want to call the
15 next few so they can start lining up.

16 VICE CHAIRPERSON TAYLOR: We can't hear you.

17 J.J. JELINCIC: You may want to call the next few
18 so they can start lining up.

19 CHAIRPERSON MILLER: Yeah.

20 J.J. JELINCIC: J.J. Jelincic, Beneficiary.

21 Climate change, reproductive rights, winning the war
22 in Ukraine, peace in the Middle East, stopping gun
23 violence, feeding the hungry, housing the homeless - These
24 are all important goals. However, they are not your job.
25 You're not investing your money. You are investing

1 beneficiaries' money to pay benefits, not to save the
2 world.

3 If you believe something is not a good
4 investment, you should not invest in it, and vice versa.
5 You are the prudent experts. If you have decided that you
6 know better than the market, you cannot claim to be an
7 index. You cannot say, "I own this because it is part of
8 the index." You're an active manager. And that should
9 make Fossil Fuels Calif -- or Fossil Free California
10 happy.

11 It also means that you have a reason for holding
12 an investment beyond reflecting the investable universe.
13 I and the taxpayers should expect higher returns for the
14 greater risk being taken on. It also means you are
15 subject to greater scrutiny. I know you want it both
16 ways, but life is not like that. At some point you will
17 be held to account. It may take a pissed-off ex-spouse or
18 a television at an NBA playoff game. But the chickens
19 will come home to roost at some point. Are you ready to
20 account for your actions?

21 And I see I've got some time. I'd like go back
22 briefly to 5b. This Board says at least the 1990s has
23 heard reports of labor abuse, abuse of renters. And the
24 Board always says, "Staff, go talk to them." And they go
25 talk to them, and they say, "Well, okay, we understand you

1 don't like it. We will be better." And then we here
2 about it the next month and the next quarter and the next
3 quarter and the next quarter. Until you actually say,
4 "That's it. We are cutting off the money," it's just
5 words. So I urge you to think about cutting off the money
6 even if it's just putting people in the penalty box for a
7 year, the world will get out -- the word will get out that
8 you are serious.

9 It's about the money, not the words.

10 Thank you.

11 CHAIRPERSON MILLER: Thank you.

12 Next I have Alyssa Giachino.

13 ALYSSA GIACHINO: Good afternoon, committee and
14 staff. My name is Alyssa Giachino with the Private Equity
15 Stakeholder Project.

16 As the human and economic costs of climate change
17 accelerates, it's crucial that companies' end investors
18 re-examine and renew their investment approach to ensure
19 we stay within a 1.5 degree trajectory. CalPERS
20 Sustainable Investments 2030 strategy represents an
21 important step forward, and we commend the leadership of
22 the Board and your staff for your work to enact policies
23 to meet your commitment to the Paris Agreement. CalPERS'
24 commitment to double investments and climate solutions and
25 consider exits from companies for failing to credibly

1 transition are key components of positioning your
2 portfolio for a low-carbon economy and mitigating climate
3 risk.

4 As a watchdog organization that focuses on
5 private market asset managers, we're particularly
6 interested in how these objectives will ensure laggard
7 private equity and infrastructure managers rapidly cut
8 emissions and transition away from the risks of fossil
9 fuels. We support the plan's commitment to set
10 sustainable investment guidelines by asset classes. We
11 recommend CalPERS set clear expectations that private
12 market managers align their full portfolios with a 1.5
13 degree pathway with a priority focus on carbon intensive
14 industries.

15 The private equity industries have made
16 insufficient progress in the energy transition including
17 major CalPERS partners like Blackstone, Carlyle, KKR, and
18 Energy Capital Partners. Private equity and
19 infrastructure firms hold billions in polluting fossil
20 fuel assets, including coal and gas power plants,
21 pipelines, fracking and drilling operators. They are
22 investing to expand fossil fuel infrastructure including
23 new drilling permits, pipelines and LNG terminals, even as
24 the IEA has called for no expansion of supply and predicts
25 the demand for oil, gas and oil -- excuse me -- oil, gas

1 and coal will peak before 2030. Private markets are the
2 least visible part of your portfolio and the opacity leads
3 to unmeasured and unmitigated climate risks.

4 You are even considering additional allocations
5 under the ALM discussion from earlier today. Private
6 markets require greater vigilance. Before making
7 additional private equity and infrastructure commitments
8 CalPERS should ensure private market managers are
9 committed to invest in alignment with the IEA pathway and
10 1.5 degrees. They should disclose groups 1, 2 and 3
11 emissions, cut absolute emissions in half by 2030, with
12 additional benchmarks through 2050. And, most
13 importantly, ensure a just transition for workers and
14 communities.

15 Thank you.

16 CHAIRPERSON MILLER: Thank you.

17 Next we'll have Sheila Thorne and Mirian Gide
18 come up.

19 SHEILA THORNE: Hello. I'm Sheila Thorne. I'm a
20 CalPERS beneficiary and a member of -- retired member of
21 CFA. And I'm glad that CalPERS is now open to exiting
22 assets that fail to present a credible Net Zero Plan, I
23 guess a real step forward. However, how long do you plan
24 to engage with these companies before making that
25 determination?

1 Exxon just made its biggest acquisition in 25
2 years, spending \$60 billion to buy Pioneer and its dirty
3 shale oil fields in the Permian Basin. As the New York
4 Times put it, instead -- quote, Instead of investing in
5 clean energy, it is choosing to produce more oil and gas.
6 The ruthless logic of the marketplace is pushing Exxon and
7 other big oil companies to double down on fossil fuels
8 instead of investing in green technology, end quote.

9 And Shell has abandoned offshore wind, hydrogen
10 and biofuel projects and has scrapped its climate pledges
11 in order to maintain 2022 levels of production until the
12 end of this decade.

13 Carbon Tracker reports that in 2021 and the first
14 quarter of 2022, Chevron, NE, Shell, TotalEnergies and
15 other companies approved approximately \$58 billion of
16 investments that will only be needed if oil and gas demand
17 grows to the point where it pushed global temperatures
18 beyond 2.5 degrees. And therefore, asset owners seeking
19 1.5 degrees aligned portfolios cannot credibly own
20 financial interest in companies that continue to invest in
21 new conventional oil and gas projects. Which all the oil
22 majors are doing.

23 According to the latest UN-backed 2023 report, if
24 current projections hold the U.S. will drill far more oil
25 and gas in 2023 than at any point in history, as will

1 Russia and Saudi Arabia. All the oil majors have already
2 failed in credible Net Zero plans, and it's time to exit
3 from these companies now before it's too late.

4 Waiting any longer will send California into a
5 permanent spiral of drought, wildfires, floods and loss of
6 shoreline. California workers' pensions should be funding
7 a just transition now and should not be funding the
8 inevitable destruction of their quality of life and
9 perhaps even their homes.

10 Thank you.

11 CHAIRPERSON MILLER: Thank you.

12 MIRIAM EIDE: Hello. My name is Miriam Eide.
13 I'm the executive director at Fossil Free California.

14 I'm going to say this is an unusual day that I'm
15 going to start off with just sincerely thanking you all
16 for your work on sustainable investments. Some big
17 progress. So congratulations.

18 And, yes, this 2030 strategy is a big step
19 forward. And there's a few things that I was particularly
20 excited about. First off, I think this is the biggest
21 recognition I've seen from your staff and your board about
22 financial risk in relationship to the climate crisis. And
23 that is crucial to making strategy.

24 The next part is the discussion of an
25 engagement-plus plan. Which, let's be frank, that's in

1 many ways exactly what we've been talking about with
2 divestment. If it's easier for you to term it that way,
3 I'm happy to call it exiting or and engagement-plus plan.

4 And the addition of consequence for noncompliance
5 with a Net Zero Plan is crucial, because otherwise you
6 will continue to fund the climate crisis rather than
7 funding a solution to it, which I need in order to
8 survive. I'm much younger than most of you all here.

9 But I did notice one pretty big hole in your
10 overall plan. Actually I would say it might be big enough
11 to drive an industry through. It seems that there's an
12 exception for the fossil fuel industry, and that you're
13 willing to continue investing in this industry while
14 holding other companies that have a smaller contribution
15 to the crisis to account for their Net Zero plans. I
16 really hope that your next iteration of this plan closes
17 that loophole and says that fossil fuel companies as well
18 will be divesting if they don't have a credible Net Zero
19 Plan.

20 And I would also point to bills such as SB 252 as
21 having a strong understanding of which companies are not
22 going to meet the standards by any means, those top 200
23 emitters.

24 One final thought to leave you all with is, back
25 in September the Governor and Attorney General announced a

1 lawsuit against the biggest five fossil fuel companies for
2 their willingness to destruct and intentionally deceive the
3 world -- or deceive the world about the impact of their
4 industries on our globe.

5 And we have the State of California making this
6 lawsuit. This is a big step - and they're not alone.
7 There's so many other states and entities suing fossil
8 fuel companies. Do you really want to still be investing
9 in these companies when they're held to account
10 financially for their destruction of our planet? Or do
11 you want to be one of the ones that's already out and
12 protect our state workers from those impacts as fossil
13 fuel companies are held accountable for their destruction?

14 Thank you.

15 CHAIRPERSON MILLER: Thank you.

16 Next I have Ruth Holton Hodson.

17 RUTH HOLTON HODSON: Thank you, and good
18 afternoon. Ruth Holton Hodson. I am a CalPERS
19 beneficiary, also a member of Third Act, a new national
20 organization that's engaging seniors in the fight for
21 climate and democracy.

22 Like others have said, I really appreciate the
23 work that staff has done. And it's exciting, and it's a
24 very exciting first step; and many of the things that
25 you've laid out we strongly support.

1 What is giving us real problems is your timeline
2 of a Net Zero -- Net Zero timeline by 2050.

3 Science is telling us there is really no time to
4 waste for exiting high polluting companies. The climate
5 crisis if not addressed immediately may well make the
6 planet unlivable by 2050.

7 CalPERS is in an extraordinary position to
8 really -- as one of the few institutions in the world, to
9 make a huge difference in how fast we transition into a
10 carbon-free economy. I would urge you to really step up
11 and become the international leader that you can be in
12 addressing the climate crisis, just as you have led on
13 governance issues over the years. If CalPERS commits to
14 bold action now, other institutional investors will
15 follow, leading to even faster development of new
16 technologies and industries that support a healthy planet
17 and healthy investment returns.

18 Your decision on how fast to proceed will not
19 only affect investments but also the health side of the
20 house. Climate change, especially rising temperatures, is
21 already having a serious impact on marginalized
22 communities and older populations. The longer it takes to
23 make a transition to sustainable energy, the higher the
24 risk to our members' health and the greater the cost to
25 CalPERS.

1 As you have undoubtedly heard, this year was the
2 hottest year in a hundred and twenty-five thousand years.
3 CalPERS, I would urge you, be bold, commit yourselves to
4 investments and a Net Zero timeline that keeps the planet
5 livable for all of us, ensuring CalPERS' beneficiaries
6 will still be here to be able to benefit from their
7 pensions.

8 Thank you.

9 CHAIRPERSON MILLER: Thank you.

10 I think that's all the public comment in the
11 room.

12 I have a series of folks on the phone. And so I
13 will call on staff to queue them up and bring them on
14 board.

15 STAFF SERVICES MANAGER I FORRER: Yes, Chairman
16 Miller. We have Julia Stein on the line to comment on
17 Agenda Item 6d.

18 Go ahead, Julia.

19 JULIA STEIN: Thank you.

20 Good afternoon. And thank you for CalPERS'
21 continued leadership in responding to the considerable
22 financial risk posed by the changing climate, and for the
23 opportunity to comment today.

24 I'm Julia Stein, the Deputy Director of the
25 Emmett Institute on Climate Change and the Environment at

1 UCLA School of Law.

2 Before saying more I do want to note that I'm
3 speaking in my individual capacity and my comments do not
4 reflect the institutional positions either of the Emmett
5 Institute or UCLA law.

6 Together with the Emmett Institute, Board member
7 Phillip Angelides and other colleagues, I've spent the
8 last several months researching and assessing the
9 approaches our state pension funds are taking to address
10 climate risk.

11 CalPERS has been a true leader in this space and
12 we were heartened to see the updated Sustainable
13 Investments 2030 strategies commitment to 100 billion of
14 investment and climate solutions continued engagement with
15 portfolio companies to ensure the credibility of Net Zero
16 plans, and enhanced measurement and reporting of CalPERS
17 portfolio emissions.

18 Effective climate risk management requires
19 accountability, transparency, clear and tangible quick
20 plans, and strong corporate governance. This strategy is
21 a very meaningful step in the right direction and an
22 important signal to other institutional investors across
23 the globe.

24 But to further strengthen this plan, we recommend
25 that the Board also consider a set of enhancements to the

1 strategy.

2 First, because as the strategy recognizes, net
3 zero portfolio goals must be backed by credible plans to
4 achieve them, we recommend that quantitative interim goals
5 be set at no greater than 10-year increments. This
6 strategy laudably already includes an emissions reduction
7 goal for 2030, CalPERS should commit to establishing an
8 emissions reduction goal for 2040 as well.

9 Second, because Net Zero portfolio goals must be
10 supported with regular standardized public reporting about
11 efforts to reach those goals, CalPERS should annually
12 release its portfolio emissions tracking methodology and
13 results. Critically, it should also publicly release its
14 internal analysis that shows the strategies put on track
15 to meet its 2030 goal of reducing portfolio emissions by
16 50 percent.

17 Third, CalPERS should clearly define the key
18 elements of climate solutions investment to help ensure
19 that such investments result in real and permanent
20 emissions reduction; and to disclose the specifics of its
21 existing \$47 billion in climate solutions investments, to
22 allow the public to better understand and assess the
23 nature of those investments.

24 Finally, to further advance the strategy's goals,
25 CalPERS should work with the State Treasurer's Office and

1 the State Controller's Office to adopt minimum standards
2 requiring disclosure of contractor financial institution's
3 emissions, climate risk, and risk mitigation strategies,
4 which those institutions must meet to do business with
5 CalPERS.

6 These standards should also include consideration
7 of whether contractor financial institutions are opposing
8 climate disclosure efforts or other forms of progress in
9 other fora.

10 Thanks again for the opportunity to comment
11 today. And I look forward to a continued engagement with
12 CalPERS on these issues.

13 CHAIRPERSON MILLER: Thank you.

14 Next caller.

15 STAFF SERVICES MANAGER I FORRER: Chairman
16 Miller, we have Jason Disterhost from Majority Action on
17 the line to comment on Agenda Item 6d.

18 JASON DISTERHOST: I'm in.

19 Hi. And thank you. My name is Jason Disterhost
20 with Majority Action, an advocacy group focusing on
21 systemic risk to shareholder value, and proxy voting tools
22 to mitigate those risks.

23 Thank you to the staff and trustees for the hard
24 work and productive dialogue on the Sustainable Investment
25 2030 strategy - to me, it's groundbreaking - including for

1 the thorough updates today.

2 As CalPERS begins to implement that strategy, I
3 wanted to note a few elements we would urge the fund to
4 prioritize.

5 First, climate change as a systemic risk. As we
6 all know, the worst risk that climate change poses to
7 shareholder value is the threatening portfolios overall,
8 from real estate to agriculture and to financial but
9 beyond, the tipping point that require a prudential
10 approach. And the strategy is being implemented in that
11 context. But this means, for example, that the value of
12 the objectives of outperformance and portfolio resilience
13 would be sharply curtailed if we see a broad
14 climate-induced depression sparked by physical and/or
15 transition risks in the coming decade.

16 So we urge CalPERS to continue its work in
17 championing the idea that climate change is a systemic
18 risk that investors should mitigate consistent with
19 fiduciary duties.

20 Second, stewardship, especially proxy voting.
21 We're glad to see stewardship emphasized in objectives 3
22 and 5. And thank you to the trustees and staff for the
23 exchange on this earlier. Your job was to build on this
24 leadership here and cushion portfolio companies to phase
25 out their contributions to climate risk. The fund can do

1 even more to set clear public expectations for portfolio
2 companies and apply director accountability to those
3 expectations.

4 For example, in earlier presentations we were
5 glad to see the IEA Net Zero roadmap and urged CalPERS to
6 include those milestones. Like you asked another wealthy
7 country utility's phasing out coal by 2030. As have been
8 noted, we're closing in on the 2030 deadlines to cut
9 global emissions in half on an absolute basis. CalPERS
10 could make clear that it expects companies to set targets
11 consistent with this and demonstrate real emissions
12 reductions aligned with those targets. CalPERS reinforce
13 those expectations by making clear that it will vote
14 against directors at companies that do not meet them.
15 Director accountability is a powerful tool on which
16 CalPERS already has a strong track record and is a key
17 part of our comprehensive stewardship approach like the
18 ones staff has detailed today.

19 Furthermore, CalPERS could continue to amplify
20 key proxy votes leveraging its leadership role in the
21 investor ecosystem, building on its record and declaring
22 two votes have advanced, flagging those votes and
23 publishing rationale.

24 Third, and last, we urge CalPERS to fully utilize
25 its influence of the client. And thanks again to trustees

1 for an earlier exchange on this topic.

2 The Fund has best-in-class influence of the
3 client as asset manager, proxy advisor and other service
4 providers, and should ensure its service provider is
5 aligned with climate expectations.

6 We applaud CalPERS' new plan first and foremost
7 for the protection it promises to provide the
8 beneficiaries' returns in the coming decade. We look
9 forward to the strongest possible implementation in the
10 next month and years.

11 Thank you.

12 CHAIRPERSON MILLER: Thank you.

13 Next caller.

14 STAFF SERVICES MANAGER I FORRER: Chairman
15 Miller, next we have Brad Anderson on the line to comment
16 on Agenda Item 6d.

17 BRAD ANDERSON: Hello?

18 Yes. Hi. My name's Brad Anderson.

19 Hi. My name is Brad Anderson. I live in the
20 city of Rancho Mirage out in Riverside County. And I
21 wanted to speak on Item 6d. And this is -- well, anyway,
22 you already know what it's about.

23 But I'm just kind of shocked listening to the
24 Committee's statements. So I would -- I would I guess
25 consider that being already approved by what I've heard.

1 But I'm in strong opposition to this -- this aspect,
2 because it's really just a policy of discrimination
3 against certain entities.

4 And the DEI narrative and the F -- ESG scheme,
5 that's all part of it.

6 But bottom line, this is out of your wheelhouse.
7 This is not anything that you should be involved with.
8 And by going ahead with this -- well, anyway, I just
9 wanted to voice my opinion. And I will definitely be more
10 involved in these committee meetings in the future.

11 Thank you.

12 CHAIRPERSON MILLER: Thank you.

13 Next caller.

14 STAFF SERVICES MANAGER I FORRER: Chairman
15 Miller, next we have Mary Cerulli from Climate Finance
16 Action, to comment on Agenda Item 6d.

17 MARY CERULLI: And -- hello?

18 CHAIRPERSON MILLER: Go ahead.

19 MARY CERULLI: I'm sorry.

20 My name is Mary Cerulli, and I'm the founder and
21 executive director at Climate Finance Action. We work to
22 advance policies and strategies for impactful, durable
23 climate finance solutions within public pension funds and
24 in other public investments. And we recognize the
25 importance or aptitude of CalPERS of trustees to build the

1 people power capacity needed to address climate risk, and
2 recognize the opportunities of a green economy.

3 We also recognize CalPERS leadership and
4 stewardship in sustainable investing so far. We expect
5 CalPERS to continue to lead with bolder ambitions to
6 mitigate the climate crisis and other social issues that
7 are material to the portfolio companies, especially in the
8 fixed income asset class and the larger economic system.

9 So in order to improve CalPERS portfolio
10 resistance, and both to ensure that climate risk is
11 appropriately test, managed, priced, and mitigated -- and
12 I'm glad that I heard this rather long board meeting. But
13 I am specifically interested in CalPERS' existing
14 benchmarks, in public equity but also fixed income. And
15 whether those indices provided -- provide room to address
16 and mitigate climate risk. Other alternative options that
17 have the potential to deliver similar or even better risk
18 return profiles, and what indices are other asset owners
19 using? We'd like to know.

20 And what ESG risk, including climate and
21 physical, are the portfolio managers being forced into by
22 virtue of the current benchmarks? We all know that
23 pension funds are not just assets. They represent the
24 compensation of workers, many of whom are represented by
25 unions. And those public employees and their unions are

1 key partners for this work.

2 Workers not only have a stake in CalPERS. They
3 also have a stake in the future. Their children,
4 grandchildren and the communities and State of California
5 where they live.

6 Thank you.

7 CHAIRPERSON MILLER: Thank you.

8 Next caller.

9 STAFF SERVICES MANAGER I FORRER: Next, we have
10 Sandy Emerson on the line to comment on Agenda Item 6d.

11 Go ahead, Sandy.

12 SANDY EMERSON: Thank you. I'm Sandy Emerson.
13 I'm a research volunteer with Fossil Free California.

14 The Sustainable Investment 2030 Plan is a very
15 welcome initiative, especially for its dramatic increase
16 in green investments.

17 The plan also opens the door to a protective
18 action that CalPERS can take to safeguard its portfolio by
19 exiting from fossil fuel companies. It's my opinion that
20 fossil fuel companies will never have credible Net Zero
21 Plans, so they already meet the exit criteria.

22 CalPERS has objected to the divestments called
23 for by SB 252 on the grounds of fiduciary duties. But one
24 of the duties of loyalty to beneficiaries is impartiality,
25 which is the duty to consider the overall best interests

1 of all the members and beneficiaries. Pension board
2 should not privilege the needs of current beneficiaries
3 over those of future beneficiaries. This has particular
4 relevance in the context of climate change. Addressing
5 climate-related financial risks protects the interests of
6 future beneficiaries.

7 Oil producers currently plan to produce more than
8 twice the amount of oil that they should in order to
9 prevent climate chaos.

10 They have already identified more than three
11 times as much in proven reserves as it is safe to
12 monetize. Their reckless expansion will perpetuate and
13 accelerate physical risks such as wildfires, floods, heat
14 waves, and other signs of climate chaos. Not only do they
15 not have credible transition plans; they are also walking
16 back previous commitments and building in increased
17 production.

18 In response to the SB 252 divestment legislation,
19 CalPERS has identified 101 of the highest emitting fossil
20 fuel producers in its portfolio. Almost half the total
21 9.4-billion-dollar market value of these investments is
22 represented by just five companies - Exxon, Chevron,
23 Shell, BP, and ConocoPhillips. These are the same
24 companies that the State of California is suing for lying
25 about the risks of climate change and delaying action for

1 years.

2 Why should our public pension dollars stay
3 invested in these companies and why should CalPERS stay
4 invested in fossil fuels?

5 I urge you to protect the future and head for the
6 exit.

7 Thank you.

8 CHAIRPERSON MILLER: Thank you.

9 Next caller, please.

10 STAFF SERVICES MANAGER I FORRER: Next, we have
11 Sarah Theiss from Fossil Free California on the line to
12 comment Agenda Item 6d.

13 Go ahead, Ms. Theiss.

14 SARAH THEISS: Hi. I'm Sarah Theiss, CalPERS
15 retiree and part of Fossil Free California. Due to time
16 limits I'm going to agree with and will not repeat all the
17 positive accomplishments the plan includes, which are
18 many. I do have three questions as to other aspects of
19 the plan. And as usual, I'll -- I'll supply citations for
20 all the facts I rely on in my comments and questions.

21 First, I don't see a mention of limiting
22 temperature increase to 1.5 degrees centigrade above
23 pre-industrial levels, which is in the focus of CalPERS'
24 prior plan. I do appreciate Ms. Willette's comments in
25 this regard.

1 So my question is really what happened to 1.5? I
2 hope that you would, the Board, will query staff on this
3 and let us know.

4 My second question is -- and I've had this for a
5 long time -- I just don't understand why CalPERS continues
6 to try to make saints out of sinners. And I have two
7 point on this.

8 One is, how solid are the fundamentals of the oil
9 majors? As of this August, 3 of the 5 biggest companies,
10 ExxonMobil, Chevron, and Total had to dip into their cash
11 reserves in order to maintain dividends and share
12 buybacks. And this is really the pattern from 2005
13 through 2020 where they collectively paid about 325
14 billion more to investors than they generated in free cash
15 flow.

16 They generated cash surplus enough to replenish
17 cash reserves and pay down debt in only three of those
18 years. And as a layperson this seems risky to me. And
19 we're already of course -- as you very well recognize, and
20 this is a very risky area in terms of, you know, the
21 markets as to fossil fuels in general, geopolitical
22 issues, and the unfolding climate disaster.

23 And my second -- the other point about this is
24 that financial -- fossil fuels have poor financial
25 outcomes. As the New York Controller recently stated,

1 basically whenever there's a market performance, there's a
2 support the system's decision to stop investing in fossil
3 fuels over a five-year period before they decided emerging
4 stocks lost more than 35 percent of their value while the
5 broader stock market increased in value by more than 50
6 percent. And through our alert early August 2023, energy
7 stocks have lost 1.3, while the broader market has gained
8 7.2 percent.

9 Now, obviously myself and others have been
10 raising this question for years now and I -- I just really
11 don't understand that.

12 My third question is really questioning reliance
13 on Mercer's approval of this plan given the plan's
14 undetermined timeline to exit the fossil fuel industry.
15 And this of course is incompatible -- incompatible with
16 science. For example, the fact that according to the
17 IPCC, existing and currently planned fossil fuel projects
18 are already more than the climate can handle.

19 When I and my siblings were teenagers growing up
20 in Queens, New York, I wanted to do something that our
21 parents didn't approve of, we argued that everyone else
22 was allowed to do X. And my father always responded,
23 "Just because everyone else jumps off the Brooklyn Bridge
24 doesn't mean you have to."

25 But here we're not jumping into the East River,

1 but really on to a journey to Climate Hell.

2 Thank you very much. And I'd love to hear
3 answers to my questions.

4 CHAIRPERSON MILLER: Thank you.

5 Next caller, please.

6 STAFF SERVICES MANAGER I FORRER: Next, we have
7 Beverly Ortiz from Climate Finance Action to comment on
8 Agenda Item 6d.

9 BEVERLY ORTIZ: Good afternoon.

10 Can you hear me?

11 CHAIRPERSON MILLER: Yes. Please go ahead,
12 caller.

13 BEVERLY ORTIZ: Oh. Thank you.

14 My name is Beverly Ortiz. I'm the organizing
15 director for Climate Finance Action. We're a nonprofit
16 organization directly engaging key stakeholders, unions,
17 and public leaders in creating a pathway for change to
18 ensure that public funds not only hold companies
19 accountable for a just transition, but support a dramatic
20 shift towards an economy that operates in favor of people
21 and the planet.

22 We recognize CalPERS' leadership and stewardship
23 and sustainable investing. It is encouraging to see that
24 CalPERS will use a science-based target initiative
25 framework Net Zero setting for companies.

1 In order to achieve 2025 and 2030 carbon
2 intensity targets, CalPERS must engage companies through
3 shareowner actions, use engagement with portfolio
4 companies to drive change by setting and maintaining
5 standards of transparency for portfolio investments,
6 including public equities, corporate bonds and other
7 assets.

8 Also CalPERS must ensure accountability for
9 companies that -- in energy, transport and industrial and
10 material factors -- sectors, you know, these companies
11 that aren't doing what they need to do. And these
12 companies that refuse to make meaningful change, there
13 needs to be a public plan created for accountability, to
14 hold them accountable.

15 Lastly, on the energy transition, we need a just
16 transition, which must include workers with high quality
17 jobs, with neighbor principles, a just transition that
18 addresses racial and economic equality, and creates a more
19 equi -- or creates more equitable communities.

20 Thank you very much.

21 CHAIRPERSON MILLER: Thank you.

22 Next caller, please.

23 STAFF SERVICES MANAGER I FORRER: Chairman
24 Miller, next we have Simone Bowers on the line to comment
25 on our Agenda Item 6d.

1 Go ahead, call.

2 SIMONE BOWERS: Hello?

3 Yes, hi. I'm Simone Bowers. And I'm a grateful
4 California beneficiary, living on my late husband's
5 CalPERS pension and Social Security.

6 Last year, which was the third year I was living
7 near a dry creek bed, it suddenly became a raging river
8 during the rainy season, and nearly washed away my
9 residence. I was less than 30 feet away from going to the
10 public shelter.

11 Most of us did not expect to see climate
12 degradation get to its current level so fast. While I
13 very much applaud CalPERS for developing a sustainable
14 investment plan, its timelines does not fully take into
15 account the fact that the earth has basically run out of
16 time. Continuing to invest in the fossil fuel industry
17 will hasten the destruction of our planet.

18 I call on CalPERS to devise wiser, more rapid
19 strategies that will result in a fossil-free California.

20 Let's protect our pensions, workers and
21 communities by protecting the environment.

22 Thanks. Thank you.

23 CHAIRPERSON MILLER: Thank you.

24 Next caller, please.

25 STAFF SERVICES MANAGER I FORRER: Next, we have

1 Claire Brown to comment on Agenda Item 6d.

2 Go ahead, Ms. Brown.

3 CLAIRE BROWN: Hello. Good afternoon. I'm
4 Claire Brown, Professor of Economics at UC Berkeley.

5 The CalPERS' expanded sustainability strategy is
6 a step forward. However, I'm here because of my concern
7 about CalPERS not being transparent about much of their
8 data related to sustainability policies and strategies,
9 which were often made without any data or evidence
10 provided, and so it is hard to evaluate.

11 An example includes the cost and performance data
12 related to the sustainability policies divestment.

13 For example, one is the stakeholders forum in
14 January 2023, CIO Musicco's statement:

15 Quote: If CalPERS sold off all of its
16 energy-related assets it would amount to
17 160-billion-dollar divestment.

18 2: Analysis of SB 252 in the spring 2023
19 estimated at 75 to 125 million in transactions costs would
20 result from divesting 9.4 billion of fossil fuel
21 investment.

22 3: The administrative cost to complying with SB
23 252 SB 252, quote: Would be in the hundreds of thousands
24 of dollars annually.

25 4: In June 2023 report to the board, Marcie

1 Frost stated: "Our team has indicated that the Bill
2 results in a 4.4 basis points per year loss over 10 years
3 and 3.6 basis point loss over a 20-year time period, with
4 a net cost for public service employers of more than
5 6-and-a-half billion dollars by mid century."

6 Also CalPERS justifies not providing evidence for
7 data related to their sustainability policies and
8 strategies because the records are exact from legal
9 disclosure, indicating that public interest in disclosure
10 have clearly outweighed by the public interest in
11 non-disclosure.

12 The research done by UC Berkeley research team
13 finds different outcomes in the CalPERS data. We find
14 that transactions' costs for divestment tend to be minimal
15 and that large portfolios have financially benefited from
16 fossil fuel divestment.

17 As an economics professor, I'm concerned about
18 data presented without evidence. And lawmakers are
19 expected to take the data as stated even when research
20 indicates that the data may not be correct or is outdated
21 or not applicable.

22 The public as taxpayers pay for public pensions
23 and the CalPERS members depend upon their retirement
24 pensions. And they both -- well, both groups need to know
25 how CalPERS makes calculations that would affect the

1 pension risk and portfolio performance, especially for a
2 policy such as divestments, which is necessary for CalPERS
3 investment strategy to be aligned with California
4 climate-related laws and climate goals.

5 I sent a CPRA request to CalPERS to the four
6 examples given, and was told the information was exempt
7 from disclosure. I requested the Investment Committee
8 board members ask the CalPERS staff to provide the
9 evidence for the sustainability presented including the
10 cost related to SB 252.

11 Thank you.

12 CHAIRPERSON MILLER: Thank you.

13 Next caller, please.

14 STAFF SERVICES MANAGER I FORRER: Next, we have
15 Sakeena Baxamusa to comment on Agenda Item 6d.

16 Go ahead, caller.

17 SAKEENA BAXAMUSA: Thank you.

18 Hello. I'm Sakeena Baxamusa, a student at UC
19 Berkeley working with the with Institute for Research on
20 Labor and Employment. We study the economic impacts of
21 investment in fossil fuels on the CalPERS Pension Fund.
22 Our team of researchers has spent the past month
23 understanding the benefits of risks associated with the
24 significant investments that CalPERS has in fossil fuel
25 companies.

1 CalPERS currently has \$9.4 billion invested in
2 fossil fuel companies. If we look at previous examples of
3 nonrenewable energy investments such as coal, which is the
4 forerunner of all fossil fuels, we can see that the market
5 value decreases significantly as the U.S. moved away from
6 coal-powered energy sources.

7 While CalPERS has significant investments in
8 coal, the top 13 national coal companies lost 92 percent
9 of their aggregate value between 2010 and 2016, showing
10 the volatility and financial risk associated with
11 antiquated fossil fuel investments.

12 CalPERS has a fiduciary duty to anticipate the
13 climb of fossil fuel investment value and divest before
14 losing large assets.

15 Over the past 12 years, the MSCI All-Country
16 World Index without fossil fuel has outperformed the MSCI
17 ACWI with fossil fuel even when accounting for
18 fluctuations like the Ukraine invasion. Over this 12-year
19 period, which is a time frame that's broad enough to speak
20 to the actuarial considerations of long-term investors,
21 Exxon market capitalization was so volatile that it
22 dragged down overall returns.

23 CalPERS currently owns 0.2 percent of Exxon, 0.2
24 percent of Chevron, 0.2 percent of Occidental Petroleum
25 and portions of other fossil Fuel companies as well.

1 Aside from being financially irresponsible
2 investments, this contradicts the CalPERS plan to reach
3 Net Zero emissions by 2050. (Inaudible) of this CalPERS
4 sustainable investment by 2030 strategy is a huge success
5 for this effort, it's still a bit too indeterminate. As
6 it is, the CalPERS sustainable investment by 2030 strategy
7 is far too vague and lacks the direct option of
8 enforceability that is benefit to stakeholders financially
9 and by meeting State climate goals. By investing in this
10 plan is on a to-be-determined basis that needs to be
11 outlined more clearly.

12 Additionally, there's no enforceability on the
13 time allotted on engagement responses with companies that
14 currently have no credible Net Zero plans. The energy
15 transition is unstoppable, and CalPERS by staying invested
16 in fossil fuel companies increases its exposure to the
17 funds to destabilization of (inaudible).

18 Finally, investing in climate solutions like
19 carbon capture and storage which are being purchased by
20 the fossil fuel industry have environmental justice
21 implications that CalPERS needs to consider before
22 investing in. I urge CalPERS to create a concrete plan
23 with a specified timeline to divest in fossil fuel
24 companies.

25 Thank you.

1 CHAIRPERSON MILLER: Thank you.

2 Next caller, please

3 STAFF SERVICES MANAGER I FORRER: Next, we have
4 Barbara Fletcher on the line to comment on Agenda Item 6d.

5 Go ahead, caller.

6 BARBARA FLETCHER: I'm Barbara Fletcher, a
7 CalPERS beneficiary. (Inaudible) a group of seniors
8 trying to help our planet. Thank you for your work on the
9 new sustainable investment policy you're presenting today.
10 Actually, I feel, however, that your timeline is far too
11 slow. Your report proposes that CalPERS investments in
12 fossil fuels will go to Net Zero by 2050. Yet that's
13 wrong after experts predict we will no longer be able to
14 limit global heating. Because I'm concerned about the
15 quality of life that my grandchildren will experience on
16 our planet, I've divested my own investment portfolio from
17 fossil fuels and invested in funds that are working with
18 sustainable energy.

19 I believe your timeline should be dramatically
20 shortened. Also your policy should focus on divestment as
21 a strategy and not count on influencing fossil fuel
22 companies from the inside because that's a strategy that
23 has failed so often.

24 CalPERS should protect workers, retirees, and the
25 planet by shortening the time frame of its goals to reduce

1 its investment in fossil fuel.

2 Thank you.

3 CHAIRPERSON MILLER: Thank you.

4 I believe that's the last of our phone-in
5 participants.

6 Is there anyone else on the phone?

7 STAFF SERVICES MANAGER I FORRER: Yep. Chairman
8 Miller, we have one more caller.

9 CHAIRPERSON MILLER: Okay.

10 STAFF SERVICES MANAGER I FORRER: Lucy Fried
11 would like to comment on Agenda Item 6d.

12 All right, caller.

13 LUCY FRIED: I thank you.

14 My name is Lucy Fried and I'm a student at UC
15 Berkeley, also working with the Institute for Research on
16 Labor and Development to understand the economic impacts
17 of fossil fuel investment on the millions of current and
18 future CalPERS beneficiaries. While the sustainable
19 investment strategy puts CalPERS in the right direction by
20 focusing on climate solutions through increased
21 investments, CalPERS should move to that faster. I have
22 written fossil fuel companies for environmental and
23 financial reasons.

24 CalPERS has \$9.4 billion in fossil fuel
25 investments as of 2022 across all of their asset classes,

1 of which 49 percent are in the large -- the five largest
2 fossil fuel emitters. Despite this, the world's demand
3 for oil and gas we're set to have in the coming years
4 according to the International Energy Agency. However,
5 investments in new projects are expected to surge by 11
6 percent in 2023, which according to the IEA report is not
7 enough to achieve Net Zero emissions by 2050.

8 CalPERS continued investments in these fossil
9 fuel companies is thus contradictory to its plan of being
10 on a pathway to Net Zero by 2050, especially if your
11 companies do not have credible Net Zero Plan and they're
12 all scaling back on their renewable energy product.

13 Through fiduciary duty's perspective, all of CalPERS
14 investments in the Big 5 fossil fuel companies have
15 declined in market value between 2018 and 2022, with a
16 divestment of these three declining 46.34 percent, Exxon
17 at minus 49 percent, and the rest around 20 percent each.

18 California's current lawsuit against these five
19 companies as well as the projected decline in oil
20 consumption, the conservative projection is a continuing
21 decline in market value.

22 CalPERS sustainability plans uses language that
23 mentions divestment, which ultimately leads to divestment,
24 but it doesn't provide the best science or the (inaudible)
25 or enough urgency to be effective enough. Instead CalPERS

1 continues to rely on engagements, which has resulted in
2 some companies Net Zero by 2050 pledges, but usually
3 without the company's specific and tangible plans.

4 As discussed earlier, working towards
5 decarbonizing the economy is crucial, but it does not need
6 to be mutually exclusive with decarbonizing the portfolio.
7 In order to reach its goals and reduce emissions, CalPERS
8 should adopt more specific protocols and should divest in
9 fossil fuel investment before the decline of oil and gas
10 and in order to uphold the financial and environmental
11 fiduciary duties to members and stakeholders.

12 Thank you.

13 CHAIRPERSON MILLER: Thank you, caller.

14 Okay. Was that the last of our callers on the
15 phone?

16 STAFF SERVICES MANAGER I FORRER: No more callers
17 on the phone.

18 CHAIRPERSON MILLER: Okay. I think that pretty
19 much wraps it up for Item 6d.

20 And so we will move now to 6e, Responsible
21 Contractor Policy Annual Review.

22 (Thereupon a slide presentation).

23 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

24 Thank you, Mr. Chair.

25 This is our annual update on compliance with

1 CalPERS Responsible Contractor Program Policy. I do bear
2 in mind that we'll be back in March to work through
3 potential updates to the policy. But this is the update
4 on the current policy.

5 And Tamara Sells will be leading us through this
6 item. So I'll turn it over to Tamara.

7 ASSOCIATE INVESTMENT MANAGER SELLS: All right.
8 Thank you so much. Tamara Sells, Associate Investment
9 Manager, Sustainable Investments.

10 It is my pleasure to present you with our
11 Responsible Contractor Program Policy Annual Report for
12 2022, 2023 fiscal year.

13 Today I will provide a brief overview of our
14 Responsible Contractor Policy and its history, some of
15 which may be familiar to you; but it's important to orient
16 where we've gone to know where we're headed.

17 Also, I'll provide a summary of the compliance
18 results, I'll touch a bit on the communication and
19 engagement flow, I'll provide a snapshot of the total
20 compliance and contracting over the past eight years. And
21 then as Dan alluded to, I'll touch a bit more on our RCP,
22 the policy refresh activities and the timeline.

23 --o0o--

24 ASSOCIATE INVESTMENT MANAGER SELLS: Okay. The
25 Responsible Contractor Policy exists to ensure prudent and

1 careful action while managing the Responsible Contractor
2 Program, demonstrating our fiduciary principles to support
3 and encourage fair wages and benefits for workers employed
4 by our contractors and subcontractors, and further
5 contributing to our competitive returns in our real estate
6 and infrastructure investments.

7 The Responsible Contractor Policy applies to
8 domestic real estate and infrastructure assets where
9 CalPERS holds a greater than 50 percent interest and on
10 contracts equal to or greater than 100,000.

11 --o0o--

12 ASSOCIATE INVESTMENT MANAGER SELLS: So as
13 familiar to you, this policy has existed for more than two
14 and a half decades, and the key takeaway here is that we
15 are currently undergoing our third policy review. And
16 that engagement process is underway. And I will touch a
17 bit more on the detailed activities later in the
18 presentation.

19 --o0o--

20 ASSOCIATE INVESTMENT MANAGER SELLS: So as
21 mentioned, our Responsible Contractor Policy seeks to
22 secure the condition of workers without adverse effect on
23 our investment returns, access to investment opportunities
24 or significant cost. And with that I'm happy to report
25 100 percent compliance by all CalPERS responsible

1 contractor managers for the fiscal year 2022 to 2023.

2 All managers have certified that they, their
3 contractors and subcontractors have complied with the
4 policy. Certified responsible contractors received over
5 \$816 million and over 7 billion over the last eight fiscal
6 years under the policy.

7 --o0o--

8 ASSOCIATE INVESTMENT MANAGER SELLS: The policy
9 continues to provide an avenue for communication and
10 engagement between our external managers, contractors,
11 responsible contractors, union and labor stakeholders, and
12 CalPERS staff in order to assess stakeholder inquiries on
13 which projects are applicable to RCP, mitigating human
14 capital management and reputational risks, as well as to
15 facilitate that contractor notification process between
16 the union and labor stakeholders and the managers.

17 CalPERS Investment staff communicate regularly
18 with our stakeholders as well as our real asset in
19 infrastructure managers regarding implementation of the
20 policy. And we work to address labor issues in a timely
21 manner and in accordance with the Responsible Contractor
22 Policy and our fiduciary duty.

23 --o0o--

24 ASSOCIATE INVESTMENT MANAGER SELLS: But policy
25 establishes communication channels and responsibilities

1 between managers, unions, contractor -- and contractors
2 with respect to bidding and notification. The RCP Policy
3 is a part of each applicable contract, requiring
4 information on wages and benefits from our contractors
5 during the bidding process as well as the annual
6 certification. Our union and labor organizations can be
7 asked and are encouraged to put their names on the manager
8 distribution lists for information -- updated information
9 on ongoing RCP projects and contracts.

10 In addition, unions may provide managers with
11 lists of signatory contractors. Some managers will employ
12 an automatic notification. Some use websites, some use
13 portals. But in any event, the policy requires that
14 managers and their delegates provide both a process and a
15 contact for these to -- the unions -- excuse me -- to
16 receive RCP bidding opportunities.

17 --o0o--

18 ASSOCIATE INVESTMENT MANAGER SELLS: For the
19 fiscal year ending June 30th, 2023, managers reported 100
20 percent compliance with the policy. And as previously
21 mentioned, certified responsible contractors received over
22 7 billion over the last eight fiscal years under the
23 policy.

24 Capital projects were the largest driver of the
25 fluctuation and the total amount paid to certified

1 responsible contractors relative to last fiscal year. And
2 although some managers reported delays in obtaining
3 necessary permits, there were others that moved forward
4 with a purchase of new assets which required capital work.

5 --o0o--

6 ASSOCIATE INVESTMENT MANAGER SELLS: So as I
7 mentioned, staff are currently undergoing a policy
8 refresh. The recommended policy revisions will reflect
9 the collective input of staff, legal, office, our board's
10 fiduciary counsel, external managers, stakeholders and
11 consultants. This refresh activity began in August with a
12 series of meetings followed by an open invitation for our
13 stakeholders to both comment and also request meetings and
14 engagements with staff where they can delve into -- and
15 share their perspective on the recommendations that they
16 would like to see for RCP.

17 Currently underway, we are compiling those
18 comments. That comment period closed on October 31st.
19 However, to date we're still receiving comments. So we
20 are compiling those comments and scheduling the
21 stakeholder engagements. Staff are planning to return to
22 the Board March 2024 with a first read of the proposed
23 policy changes.

24 Overall, application of the responsible
25 contractor policy has resulted in positive outcomes for

1 CalPERS, our stakeholders, as well as investments, and
2 continues to serve us well.

3 I'm happy to address any questions that you have.

4 CHAIRPERSON MILLER: Okay. Thank you for that
5 presentation. I appreciate it.

6 Doesn't look like we have any requests from the
7 Board to speak.

8 I have a few members of the public that want to
9 speak. So I'll ask Jeremy Smith and Michael Mark to come
10 down to the microphone. And as always, whenever you begin
11 to speak the time will start. And you can track it up
12 here in front of me.

13 JEREMY SMITH: Thank you, Mr. Chair, members of
14 the committee. Jeremy Smith, Chair, on behalf of the
15 State Building and Construction Trades Council of
16 California. We are a council of construction trade unions
17 that represent over 450,000 union workers in craft
18 construction unions up and down the states.

19 Thank you for the opportunity to address you
20 today on your Responsible Contractor Policy revision.
21 We're pleased to be part of the stakeholder process, and
22 look forward to engaging staff on our recommendations.

23 And want to remind you all that in addition to
24 your primary fiduciary responsibilities it is important to
25 remember that the sheer size of CalPERS means that you all

1 and the fund can really be a force for progressive
2 pro-worker change.

3 The recommendations we outlined in our letter of
4 October 31st will ensure that the RCP can act as that
5 change, and mirror what was intended by the RCP according
6 to CalPERS' own statement of investment policy for
7 Responsible -- for the Responsible Contractor Program.
8 That is, to hire contractors that, quote, support many of
9 the ideals espoused by labor unions and encourage
10 participation by labor unions and their signatory
11 contractors in the development and management of CalPERS
12 real estate and infrastructure investments.

13 CalPERS believes that an adequately compensated
14 and trained worker delivers a higher quality product and
15 service. We could not agree more with that -- with your
16 own policy statement.

17 But recognize that it is difficult for CalPERS to
18 monitor contractor behavior on construction projects. And
19 once poor behavior is discovered, it is often too late to
20 take corrective action. The issue such as wage theft,
21 health and safety violations, and poor quality
22 construction are not readily apparent during a
23 construction project, and largely come to light only after
24 construction is complete, but happen primarily on projects
25 carried out by so-called low-road contractors.

1 However, violations such as those I just
2 described and of the RCP create investment risks for
3 CalPERS as an asset owner.

4 Again, wage theft, health and safety viola --
5 issues, project delays and construction defects, often not
6 reported by workers for fear of reprisal, may lead to
7 fines and penalties by public agencies in litigation by
8 end users. These negative outcomes are financial risks
9 that can eat away at a construction project's investment
10 returns and can be difficult to mitigate once a problem
11 has been allowed to develop.

12 When construction project managers do not
13 consider the qualifications of potential contractors, low
14 quality irresponsible contractors are chosen simply
15 because they submit the lowest cost construction bids.

16 For these reasons construction project managers
17 are best served by engaging in a, quote, best value
18 contracting model, rather than a lowest-cost auction
19 winner selection process.

20 Best value contracting is a procurement process
21 that considers other factors in addition to the price and
22 the award and execution of construction contracts

23 Furthermore, the most practical approaches to
24 mitigate risks in construction contracting is to avoid
25 irresponsible contractors by pre-qualifying firms with

1 proven track records, requiring the use of project labor
2 agreements, and/or requiring the use of a skilled and
3 trained workforce to carry out the projects as defined at
4 Public Contract Code Section 2600.

5 Any of these construction delivery techniques
6 incentivizes suppliers to maintain or improve their
7 conduct.

8 In closing, we believe that fostering a
9 competitive market with the active participation of
10 responsible contractors increases investment returns,
11 expands employment opportunities for California workers
12 and improves social welfare in the long run.

13 Thank you.

14 CHAIRPERSON MILLER: Great. Thank you.

15 Next we have Michael Mark.

16 MICHAEL MARK: Board members, thank you, thank
17 you for letting me speak to you today.

18 Again, my name is Michael Mark. I'm here with
19 Sheet Metal Workers Local 104. We are an affiliate of the
20 State Building Trades Council.

21 I think one thing that -- there was a commonality
22 today was let's make some change for California, let's do
23 the right thing, and one thing within is the RCP. I think
24 Director Pacheco asked earlier of the California
25 investments. There was that great report that was done.

1 And I think one of the numbers that I saw was \$18 billion
2 of real assets within California. And like how do we make
3 the change of making sure that the RCP applies to all of
4 those projects? Because these are your brothers and
5 sisters in California. And how do we uplift the
6 community?

7 So when we're talking about \$18 billion,
8 sometimes those numbers are so astronomical, you know,
9 with this entire pension plan of -- of almost 500 billion.
10 These numbers are so, so -- on paper, it's like but each
11 time when we're talking about how this RCP applies, I
12 think I heard earlier \$816 million of a construction work
13 was applied within this RCP. Think about this: That
14 dollar represents one hour for a construction person --
15 worker to work on the said project. So every time you
16 have an hour, that's another paycheck for that particular
17 family. There is additional food and additional health
18 care for those individuals. So that's how like the world
19 here together, we're all connected somehow.

20 So when we're talking about change within
21 California and CalPERS' responsibility within, there is so
22 much information that is done. And we're talking about
23 ESG and a 100 billion dollars of capital being possibly
24 invested in, there's also the making sure that those jobs
25 that are created with that investment are actually going

1 to be benefiting, let's say, union construction workers.
2 Let's make sure the investment is correct.

3 So I spoke about some of the items. So I'll give
4 you one instance where the RCP could be very helpful. The
5 CIM Group, which was not in -- they listed that they
6 didn't have any projects within their RCP. But they're
7 listed. There is an upcoming project in Alameda County
8 that's -- it's going to be a big tower. And right now
9 they're not actually doing outreach with the local labor
10 leaders. And the goal is to make conversation to see how
11 can we best partner to make sure that CIM Group on this
12 project in Oakland, in Alameda County, that they're going
13 to use a union workforce with sheet metal workers in the
14 building trades.

15 But partly the confusion is there are so many
16 like different commingled funds that that fund CIM is
17 working --

18 CHAIRPERSON MILLER: Your going to wrap it up
19 here. You're out of time there. So if you could wrap it
20 up quickly.

21 MICHAEL MARK: Wow, that was fast.

22 So, in the end -- again, Michael Mark with Sheet
23 Metal Workers Local 104. How can we make sure this RCP
24 applies? And I did submit comments. And I appreciate
25 hearing back from staff.

1 Thank you.

2 CHAIRPERSON MILLER: Great. Thank you very much.
3 Okay. I don't believe we have any other public
4 comments requested for this item.

5 VICE CHAIRPERSON TAYLOR: We have, the phone.

6 CHAIRPERSON MILLER: Oh, we got one on the phone.
7 Okay.

8 Now let's bring our phone caller on.

9 STAFF SERVICES MANAGER I FORRER: Yes, Chairman
10 Miller, we have Valentina Davos from Private Equity
11 Stakeholder Project, to comment on Agenda Item 6e.

12 Go ahead, caller.

13 VALENTINA DAVOS: Good afternoon, Board. My name
14 is Valentina Davos with the Private Equity Stakeholder
15 Project.

16 CalPERS Responsible Contractors Policy has been a
17 valuable tool for ensuring contractors provide quality
18 jobs and stable workforces in the system's real estate and
19 infrastructure investments. We applaud CalPERS for
20 revisiting its policy to ensure it stays ahead of changing
21 needs in the asset classes since its 2015 update.

22 Requiring responsible contractors within the real
23 estate and infrastructure portfolio is conducive to the
24 value proposition of those investments that provide high
25 quality services and products and workforce ability

1 consistent with fiduciary duties.

2 CalPERS could consider a few updates for the
3 policy aligned with current best practices. We suggest
4 adopting language to encourage labor, peace and strengthen
5 neutrality, help protect CalPERS' investments from the
6 impact of labor disputes.

7 We also suggest adopting language similar to the
8 policy of the pure funds like the New York State Common
9 Retirement Fund or New York City Pension Fund, including
10 encouraging employer-paid safety training by contractors,
11 avoiding partners that pose a regulatory or reputational
12 risk, enhancing the language to apply to commingled funds,
13 co-investments, separate accounts or other ownership
14 exposure under a 50 percent stake.

15 Thank you so much for your attention to these
16 critical matters and for your transparency. And we -- and
17 for your request for feedback in the process. We look
18 forward to further dialogue with you and other
19 stakeholders.

20 CHAIRPERSON MILLER: Thank you for your comments.

21 Okay. I think that wraps up public comment on
22 Item 6e. So we'll move to Item 6f, Consultant Review of
23 CalPERS Divestments.

24 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Yes,
25 thank you, Mr. Chair. I think Lauren Gellhaus from

1 Wilshire Advisors will be joining us in a while. She's on
2 her way up here. I'll just share a couple of things.

3 First, you'll recall that the CalPERS Total Fund
4 Policy requires two things through the lens of divestment
5 activities. The first is an annual review of the economic
6 impact on divestments -- or from divestments.

7 And the second is an every-five-year thorough review
8 of all of our divestments; and then either reaffirming
9 those divestments or removal of some of them. This is the
10 annual economic review.

11 Lauren is here. So I'll let her take us through
12 the item.

13 LAUREN GELLHAUS: Thank you.

14 Thank you, and good afternoon, Board members. I
15 am Lauren Gellhaus of Wilshire, and my comments today will
16 be brief. But I did want to walk you through the context
17 and the background of the analysis concluded for the
18 divestment report.

19 I'm going to walk you through why we complete the
20 analysis, which Dan has just touched on; how we complete
21 the analysis; and then finally wrap up with a short
22 overview of the results of the analysis.

23 So the Why. Dan noted, within policy there are
24 two divestment items that are addressed. First is the
25 fact that active divestments will come back to the Board

1 for that reaffirmation process at least every five years.
2 The last reaffirmation was completed in March of 2021.

3 The second part of it is that in between those
4 reaffirmations there's an annual review of an update
5 provided to the Board, that being this today.

6 So within the update that is completed there's a
7 forensic analysis that is done to show the financial
8 impact of CalPERS' active divestments of which there are
9 currently four. Those are tobacco, Iran, firearms, and
10 thermal coal.

11 So that the letter summarizes that analysis for
12 the annual review of the active divestments.

13 So then the How. So to complete this analysis we
14 received data from your vendor providers. For each active
15 divestment we had the index without the securities
16 divested, and then another with the divested securities
17 removed.

18 Said another way, there's data on the portfolio
19 pre-divestment and post-divestment. We then do
20 comparisons of simulated portfolios.

21 So next we run through that process to estimate
22 the financial impact of the difference in the two return
23 streams. And this shows us how the securities would have
24 done had the portfolio -- how the portfolios would have
25 done had the securities not been removed, and showing the

1 difference either positively or negatively.

2 We then accumulate that impact through time, and
3 that's what is summarized in the report.

4 So then for the results, within the letter we do
5 show that two out of the four divestments had a positive
6 impact on the market value of the portfolio and yet that
7 you had a negative impact on the portfolio.

8 Further details around the analysis can be found
9 in the investment report itself. Given that the last
10 affirmation was in March of 2021, this analysis includes
11 nine quarters of data; that being the second quarter of
12 2021. And then the quarters within the last two fiscal
13 years.

14 That concludes my prepared remarks. But I'm
15 happy to address any questions that the Board may have.

16 CHAIRPERSON MILLER: Okay. I have a question
17 from Director Pacheco.

18 COMMITTEE MEMBER PACHECO: Yes. Thank you.
19 Thank you, Chairman Miller. And thank you, Lauren, for
20 your report.

21 I just have a question regarding the tobacco.
22 You know, what -- may be contributing to the negative
23 present value observed in the tobacco category? I -- from
24 previous, from 2021 to now I just want to note your
25 analysis of what's the contributing factor? Is it in the

1 economy or -- if you can just elaborate on that.

2 LAUREN GELLHAUS: Yes. For this analysis we look
3 at it from two different lens of the segment 1 and segment
4 2. And we saw most of the detracting from segment 2,
5 which was a more concentrated set of securities. And so
6 if you think about any kind of divestment activity reduces
7 that pool further, concentrating it, so any of the impacts
8 you're going to see are going to be more pronounced. And
9 that could be positively or negatively. This year we did
10 see over the cumulation of those nine quarters a negative
11 impact. But if you can recall back to 2020, there was
12 positive across all the active divestments. So these are
13 volatile and they can change year over year.

14 COMMITTEE MEMBER PACHECO: So and because of the
15 concentration and the securities that you mentioned,
16 that's what's attributing to the negative present value
17 estimate?

18 LAUREN GELLHAUS: Yes. Pronounced in Q1 and Q2
19 of this year.

20 COMMITTEE MEMBER PACHECO: Thank you very much
21 for your comment.

22 LAUREN GELLHAUS: Thank you.

23 CHAIRPERSON MILLER: Okay. Thank you for your
24 presentation.

25 I don't see any further questions. I don't

1 believe we have any public comment on this item.

2 So we will move on to 6g, Summary of Committee
3 Direction. And this will be another exiting item, I'm
4 sure.

5 INVESTMENT DIRECTOR DEMING: I've noted one
6 Chair-directed item that we will update, the proxy voting
7 policy, and bring it back for Board's input at the
8 appropriate time in the future.

9 That was the only directed item. But I have
10 noted a number of other than Board member comments, and we
11 will find the right way to be responsive to those as well.

12 That's it.

13 CHAIRPERSON MILLER: Okay. I thought we had more
14 than one.

15 CHIEF EXECUTIVE OFFICER FROST: Yeah, Mullissa
16 had a couple.

17 CHAIRPERSON MILLER: Yeah. Well, let's double
18 check that.

19 CHIEF EXECUTIVE OFFICER FROST: We'll pull the
20 transcript and find them, Mullissa, then I'll follow up
21 with the Board?

22 CHAIRPERSON MILLER: Okay. Well, with that, I'm
23 looking at Item 6h. I don't believe we have any more
24 public comment on 6.

25 And so we will now -- we're going to take a

1 break, and then we're going to go into closed session.

2 So let's take a 10-minute break and we'll
3 reconvene for closed session. So we can go ahead and
4 start to clear the room.

5 And then we will return after closed session.

6 Oh, yeah. Yeah, we'll adjourn out of...

7 (Off record: 4:04 p.m.)

8 (Thereupon the meeting recessed
9 into closed session.)

10 (Thereupon the meeting reconvened
11 open session.)

12 (On record: 6:04 p.m.)

13 CHAIRPERSON MILLER: We'll reconvene here in open
14 session. And hearing no objection, I will say we are
15 adjourned for the day for Investment Committee.

16 Adjourned.

17 (Thereupon, the California Public Employees'
18 Retirement System, Investment Committee
19 meeting open session adjourned at 6:05 p.m.)
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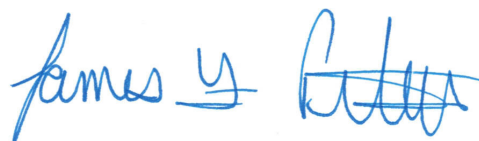
CERTIFICATE OF REPORTER

I, JAMES F. PETERS, a Certified Shorthand Reporter of the State of California, do hereby certify:

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

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

IN WITNESS WHEREOF, I have hereunto set my hand this 27th day of November, 2023.



JAMES F. PETERS, CSR
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