































































































































































































































1 in our toolkit to make sure we're all focused on those  
2 active strategies returning the appropriate level of  
3 return for the risk that we're taking. And so more on  
4 that.

5           And finally, a huge initiative around sustainable  
6 investment. You heard from Mark Carney today on just the  
7 size, and the scope, and just our role as institutional  
8 investors, the opportunity that is there, but also the  
9 risk that is there. Really making sure we're putting --  
10 looking ourselves in the mirror to make sure are we again  
11 walking the talk. Are we best in class, thinking about  
12 how we implement ESG frameworks? Are we thinking  
13 thematically about where these opportunities are? Are we  
14 thinking thematically about where the risks are? And  
15 that's why it was so important with, you know, Marcie's  
16 blessing when I first joined to bring that sustainable  
17 investing role over into investments, so that we can make  
18 sure that we are leading into the investment as well as  
19 the risk lens of sustainable investing.

20                               --o0o--

21           CHIEF INVESTMENT OFFICER MUSICCO: So next page  
22 please. And so what is our path forward? As I mentioned,  
23 nine initiatives, 22 plus workstreams across those  
24 initiatives, over a hundred individuals involved in that.  
25 Many of these outcomes now are obviously business as

1 usual. A few items that were just bigger lifts, things  
2 around portfolio optimization. For example -- another  
3 example I gave on the risk budget, those things will carry  
4 on through and find their way into our next year's  
5 strategic initiatives. People and culture is just going  
6 to be something you're going to hear us talk about every  
7 year that I'm here in front of you. It will continue to  
8 evolve.

9           But what this has done by going through these  
10 nine business initiatives this past year has really laid  
11 this foundation I referred to earlier. It really sets us  
12 up for saying, okay, we know what we've got, we know where  
13 the weaknesses are, the opportunities, the threats, et  
14 cetera, let's lay the groundwork for our strategy 2030,  
15 which we will work through and walk through with the Board  
16 in the coming months.

17           I was really delighted and proud of the outcomes  
18 of the team this year. I think that there were some  
19 sleeping giants, if you will, of opportunity within our --  
20 within our teams, within our programs that were just  
21 waiting for the moment to be energized. And I think the  
22 Board will be excited to see, once we walk you through  
23 strategy 2030, how much momentum we already have. And so  
24 I'm really looking forward to walking through all of that  
25 with the Board.

1 I think I'll leave it at that, just so that I  
2 have some time to walk -- to walk through any questions  
3 that the Board may have. Thank you very much.

4 CHAIRPERSON MILLER: Thank you very much. We do  
5 have some questions. I'll start with Director Pacheco.

6 COMMITTEE MEMBER PACHECO: Thank you. Thank you,  
7 Chair Miller. And thank you, Nicole, for your  
8 presentation. This is very, very interesting and I do  
9 appreciate your thoroughness on this report.

10 I'd like to ask you a question on slide number,  
11 on the highlights and accomplishments of the profile. I  
12 just want to ask what benefits or advantages do you expect  
13 to realize with the consolidation of the pipelines in  
14 private equity and the growth innovation pipelines? Are  
15 you satisfied with the progress made with co-investments  
16 in the private asset classes at this time? Thank you.

17 CHIEF INVESTMENT OFFICER MUSICCO: I'll start  
18 with the second part of your question with, you know, a  
19 resounding yes. I think you'll get an opportunity to  
20 really hear about the great work the entire team has  
21 accomplished with respect to co-investing. It's not just  
22 about deploying the capital though, it's making sure we're  
23 aligning ourselves with the right partners. It's making  
24 sure we have the right investment decision-making  
25 framework in place, the right governance in place. It's

1 making sure that our pacing is thoughtful. It's making  
2 sure we understand that our -- where our liquidity is and  
3 implications on that liquidity, and it's making sure that  
4 we have the right mix of risk within these private market  
5 programs.

6           And so part of bringing together private equity,  
7 growth and innovation all under one umbrella, to answer  
8 the first part of your question, was really about making  
9 sure we were really ring fencing and understanding the  
10 entire spectrum along the risk-reward spectrum, if you  
11 will, of private equity, which should include, in my mind,  
12 everything from venture through to private equity to make  
13 sure we have the right mix, to make sure we're bringing on  
14 the right resources, to make sure that we're being  
15 thoughtful in the thematic that we're focused on, some of  
16 which are perfect for the venture investing bits, and  
17 other parts are perfect for the other parts of the  
18 program, like our buyout or mid-market buyout.

19           Having a systematic approach to understanding the  
20 value creation levers within that program is also  
21 important, so think about just portfolio monitoring in  
22 general. And by having both the growth bits and the more  
23 traditional buyout bits together all under one umbrella  
24 and folding in venture, it just makes sure that we're  
25 using, you know, best-in-class approaches to that

1 monitoring.

2           And that ties into the monitoring and the  
3 aspirations we have for the ESG work that we're going to  
4 do, the sustainable investing work that we're going to do,  
5 as we've talked about in the past, growing into, evolving  
6 into more of a direct investing program. And I've always  
7 said that's like a 10-year thing. Really at the heart of  
8 that is making sure that the knowledge transfer is there,  
9 that we have the right strategic partners working with us,  
10 training us up, giving us that knowledge transfer. And  
11 again, putting that all under one umbrella to me was a  
12 really important next step in our evolution towards that.

13           COMMITTEE MEMBER PACHECO: Thank you very much,  
14 Nicole. I have another follow-up question I want to ask.

15           CHIEF INVESTMENT OFFICER MUSICCO: Please.

16           COMMITTEE MEMBER PACHECO: Back on slide number  
17 7, which I was also very interested in, you know, on  
18 the -- you know, what is the -- what do you anticipate the  
19 timeline for deciding whether to utilize some or all of  
20 the 14 active risk strategies being researched on the  
21 innovation platform? So I'm curious about that. Thank  
22 you.

23           CHIEF INVESTMENT OFFICER MUSICCO: Sure. A  
24 number of the strategies -- when we say new strategies,  
25 just to clarify, a lot of these were ideas that have been



1 percolating long before I arrived.

2 COMMITTEE MEMBER PACHECO: That's right.

3 CHIEF INVESTMENT OFFICER MUSICCO: And it's just  
4 a matter of having a governance structure in place to make  
5 a decision to press go or no go.

6 COMMITTEE MEMBER PACHECO: Um-hmm.

7 CHIEF INVESTMENT OFFICER MUSICCO: It's also  
8 making sure -- you know, I often will say is this going to  
9 move the needle? When you think about the limited  
10 resources that we have at CalPERS, I want to make sure  
11 that we have the right skill in place, that we are focused  
12 on working with the right partners, and that overall it's  
13 contributing in a way that's going to move the needle at  
14 the end of the day.

15 And so part of having a governance structure that  
16 looks through all -- each and every one of those bits, and  
17 having it all consolidated under one gives us a very good  
18 vantage point to prioritize which of these strategies  
19 makes sense today for us to implement, which of these  
20 strategies make perfect sense for CalPERS. But to get  
21 there and to move the needle, we may need to rely on some  
22 smart friends, outside partners, strategic partners.

23 And so the team right now -- again, if I think  
24 about the level of collaboration that's happening across  
25 the Investment's team to address and answer the how, and

1 when, and why --

2 COMMITTEE MEMBER PACHECO: Um-hmm.

3 CHIEF INVESTMENT OFFICER MUSICCO: -- it's really  
4 exciting to see the energy and the excitement. And so  
5 some of the things that will be launched outside -- as a  
6 result of just coming together and prioritizing, you'll  
7 see in the coming months. In other places, they'll be  
8 incubated. They don't move the needle, but they're the  
9 right thing for us to be growing into and growing  
10 knowledge into over time. And so they might take a bit  
11 more time and we might have to rely on outside parties,  
12 for example, to help us implement some of the strategies.

13 COMMITTEE MEMBER PACHECO: That's -- thank you  
14 very much for that information. Thank you.

15 CHAIRPERSON MILLER: Okay. Next, we have  
16 President Taylor.

17 VICE CHAIRPERSON TAYLOR: Thank you, Chair  
18 Miller.

19 Nicole, great presentation. I like the 30,000  
20 foot view that we're seeing here. So I had a couple of  
21 questions. I think three. One, I wanted to get an idea  
22 of -- you said -- you talked about our stakeholders. You  
23 want to be more responsive to our stakeholders. So as the  
24 Investment Office -- as the Chief Investment Officer, who  
25 do you consider your stakeholders that you should be

1 contacting and do you have different stakeholders that  
2 other people should be contacting type of thing? I'm  
3 trying to --

4 CHIEF INVESTMENT OFFICER MUSICCO: Sure. Yeah.

5 First, I think that first exercise that we went  
6 through is like let's articulate who's a stakeholder. And  
7 we realized pretty quickly the list is long, because lots  
8 of folks are interested in what we're doing and  
9 understandably so appropriately so. And so working with  
10 our partners on the enterprise side with Brad and team,  
11 and bringing on Kelly Fox to come over and oversee  
12 stakeholder engagement, we're really excited about the  
13 ideas we're starting to generate about how do we just  
14 build up the -- our own brand and talk more to that broad  
15 base of stakeholders and, you know, I went through them,  
16 everything from internal stakeholders to external  
17 stakeholders, Board, executive, our two million plus  
18 stakeholders at large. How do we do a better job at  
19 keeping them informed on what's important to us, how do  
20 keep a -- do a better job at informing how we're doing  
21 against our own objectives, how we're holding ourselves  
22 accountable.

23 And so a lot of that in the coming year will come  
24 in the form of, well, we started with your group.  
25 Hopefully with the Board, hopefully we're doing a better

1 job through things like revamping the TLR, revamping our  
2 quarterly, boarded education sessions, engaging with you  
3 more frequently, engaging with you on the topics that  
4 we -- that we're hearing you say you really care about.

5           So hopefully, what you'll start to see is that  
6 this initiative to engage with you is manifesting itself  
7 in better communication, tools, and products, better  
8 website utilization, better reporting the reports  
9 themselves, more engagement with you at places like our  
10 off-site, engaging with -- in the stakeholder forums, et  
11 cetera.

12           And so it's really just more about opening the  
13 hood a little more a letting take -- people take a peek  
14 inside to see what we're doing, why we're doing it, and  
15 where we're prioritizing.

16           VICE CHAIRPERSON TAYLOR: Thank you very much. I  
17 appreciate that.

18           When you talked about knowledge transfer, I love  
19 that idea, and you and I have talked about that a little  
20 bit. I don't want to get too far into it. We don't have  
21 to, but if you could sort of do a little expansion just --  
22 because you just mentioned the knowledge transfer.

23           CHIEF INVESTMENT OFFICER MUSICCO: Sure. Yeah,  
24 knowledge transfer, you know, it can come in a lot of  
25 forms. Right now, you know, if I step back for just a

1 minute, when we talk strategic partners, you know, what  
2 really makes them strategic to us or us strategic to them?  
3 We have capital. They want capital. That doesn't really  
4 make for necessarily a strategic partnership. But where  
5 it starts to get really interesting is when we can lean on  
6 them for some of our organizational needs, including  
7 knowledge transfer.

8           And so if we find an organization, an investment  
9 partner, that is an expert in AI -- let's use AI, for  
10 example, and there's ways we could invest with them.  
11 There's ways that we can really get in the weeds on how  
12 have they build up their own in-house capabilities, tech  
13 and data wise, machine learning, how they're using AI. If  
14 we can learn from that and apply those learnings, both  
15 through the investing lens and risk mitigation lens,  
16 that's what really creates a real sizzle to that what a  
17 strategic relationship is, understanding that the capital  
18 is there for them to build their business. Well, in  
19 return, we're going to get the under -- the table stakes  
20 is great returns, but we're also going to get that  
21 knowledge transfer, both into how, and where, and why the  
22 team invests, but also into our own internal processes.

23           We glean a lot by spending time with our partners  
24 to say how do you make decisions? How do you say -- like,  
25 when you say no, what did you go through that might be

1 different? When you say, yes to an investment, what did  
2 you do? When you think about your ESG framework and how  
3 you apply it, what are you doing different than us? And  
4 by spending, you know, time and attention on that, and  
5 brining that knowledge in-house, it's just -- it's  
6 accelerating our ability to get to where we want to get to  
7 at the end for our own strategic destination.

8 VICE CHAIRPERSON TAYLOR: Excellent. Thank you.  
9 And then my last question was you had mentioned integrated  
10 sustainable investment team, which pulling it over to the  
11 Investment Office, but then you talked about thinking  
12 thematically. So what does exactly that mean for the  
13 sustainable investment team?

14 CHIEF INVESTMENT OFFICER MUSICCO: Well, you  
15 know, if you think about all the branches, if you will, of  
16 a sustainable investing strategy, you know, we've been  
17 leading in the market, if you will, on the advocacy piece  
18 and the education piece, but we're really trying to expand  
19 on this. We're saying, okay, how do we become global  
20 thought leaders through the investing lens into  
21 sustainable -- into sustainability. And having Mark  
22 Carney here today is one of -- you know, as one example of  
23 how one of our investment managers is investing very  
24 thematically into sustainability. And so thinking about  
25 that, that's through the climate lens.

1           We have the other lens that we've been spending a  
2 great deal of time on, which is why we've launched our  
3 catalyst conference, investing sustainably through the  
4 diversity lens. And so if you think about themes, you  
5 could AI into that as a thematic. How will artificial  
6 intelligence interrupt or disrupt, if you will, the  
7 economy in the way that automation did? We talked a  
8 lot -- we talked a little bit about that in Mark's  
9 conversation today.

10           We need to be getting ahead of and investing in  
11 that AI thematic. We need to be better understanding the  
12 implications going forward for our portfolio. And so  
13 sustainable investing to us is everything from how we do,  
14 and why we do, and the voice we use, and the engagement we  
15 use through the advocacy bits, but it's also the risk  
16 mitigation bits as well as the investing bits. So pulling  
17 all that together, we think is, you know, very -- it's  
18 more than appropriate. It's really -- it's expected of us  
19 to have that.

20           VICE CHAIRPERSON TAYLOR: Excellent. So global  
21 thought leaders. And I was wondering if we could drill  
22 down on that, because we don't just want to be global  
23 thought leaders, we want to be leaders on our sustainable  
24 investing. So I just want to know have you taken that  
25 global thought leadership further into being actual

1 leaders in sustainable investing?

2 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. And it  
3 was -- it was refreshing and I was happy that Mark thought  
4 to mention to all of us today that while other groups  
5 are -- have got a wee bit of ahead start on us. It is  
6 still very early days as institutional investors like  
7 ourselves to demonstrate that we can be leaders in the  
8 transition.

9 And our full intent is to be a leader in this  
10 transition. And again, through the sustainability lens,  
11 we don't just have to be leaders in energy transition, we  
12 can also be leaders in investing behind other thematics  
13 like diversity. And so we're really trying to put, you  
14 know, our foot forward and demonstrate to the market that  
15 we're not just going to be talking about these issues ad  
16 nauseam. We're actually going to start putting our  
17 capital and hiring up resources and investing in our own  
18 technology and data, et cetera, so that we can position  
19 ourselves to truly be leaders and not just thinking about  
20 it.

21 VICE CHAIRPERSON TAYLOR: Okay. Great. Thank  
22 you. I appreciate it.

23 CHAIRPERSON MILLER: Okay. Director Middleton.

24 COMMITTEE MEMBER MIDDLETON: All right. Thank  
25 you. Well, I want to pick up on the theme of Mr. Carney's



1 presentation earlier today and I really do appreciate  
2 seeing him. The numbers that he gave, if I understood  
3 correctly, is that within a decade we should be getting to  
4 a four to one ratio of investment in renewable energy as  
5 opposed to fossil fuel. Do we have any idea what our  
6 number is at CalPERS today?

7 CHIEF INVESTMENT OFFICER MUSICCO: I'll defer the  
8 question to Peter. I will tell you, if I don't know it,  
9 then we don't -- then we don't have it. And so I'm -- if  
10 Peter has the answer, I'm disappointed in myself for not  
11 asking the question. So I think, you know, bringing Peter  
12 on and spending the time and energy, which is more than --  
13 you know, appropriately so on really coming forward to all  
14 of you and our stakeholders on what our path to net zero  
15 is, what our strategy is for sustainable investing is a  
16 top priority for us.

17 And so, you know, I took down a bunch of notes  
18 today on what Mark was saying. Even though we've chatted  
19 a bunch of times, I'm really eager to come -- be able to  
20 come back to you with a very specific plan. Because what  
21 I liked about what we heard today is that these are  
22 objective goals. These aren't theoretical. These are  
23 real problems with data to support the problem, with real  
24 targets to data -- with data to support the target and  
25 it's our -- our role is to make sure that we're -- we are

1 meeting the challenge. And so we will come back to you  
2 with what our plan is in the coming months. And  
3 thankfully we have leadership like Peter and his team here  
4 to help guide us through that.

5           MANAGING INVESTMENT DIRECTOR CASHION: Okay. The  
6 short answer to your question is that we will have the  
7 answer for you later today.

8           (Laughter).

9           MANAGING INVESTMENT DIRECTOR CASHION: We were  
10 actually just looking at that number, because we're  
11 working with each of the asset classes to not only assess  
12 what investments we have currently that qualify as climate  
13 solutions and transition, but perhaps more importantly  
14 looking at where are we going to go over the next decade  
15 and the next -- and this year even, in terms of coming up  
16 with a comprehensive sustainable investment plan that  
17 takes advantage of these opportunities that Mark Carney  
18 elaborated on, but also factors in the risks.

19           So I could quote you a number, but that is from  
20 TCFD report, which was, you know, over a year and a half  
21 ago. So I'd prefer to give you the exact one and we can  
22 share shortly.

23           Thank you.

24           COMMITTEE MEMBER MIDDLETON: Thank you. And  
25 frankly that is the answer I was hoping to get. I would

1 have been a bit shocked if I'd have heard, okay, we're at  
2 X times whatever today.

3           For most of us who have heard Mr. Carney's  
4 opinion that four to one in 10 years is an appropriate  
5 standard, that I think should be tested as to what other  
6 experts might be out there as to what's an appropriate  
7 standard, and what's an appropriate standard for an  
8 organization like CalPERS, given what our investment  
9 opportunities are, as well as the fact that we want to be  
10 a leader. And if four to one is the number that we should  
11 be getting to as a society, then perhaps the number that  
12 we need to be getting to to establish our leadership role  
13 is something different than that.

14           But what -- what I'm also very particularly  
15 interested in is what should be the pace of that  
16 transition and that change in terms of our investments,  
17 so -- and those kinds of numbers really, what I found very  
18 positive about them is it allows us to document where we  
19 are in terms of accelerating the transition. And that  
20 kind of documentation, in the times that we are in today  
21 from a political standpoint, is going to only be more  
22 important over the course of the next decade. The  
23 pressures we're seeing today are not going to go away and  
24 they're not going to lessen. So thank you.

25           The other part of that was his recommendation

1 that, one, we invest in the transition. So I think we  
2 need to really be able to define well what our investments  
3 are, and two, that we are taking an active role in  
4 influencing public policy, and there's some great  
5 opportunities there for us to take and do. And what I  
6 would hope to have, and I'm just one voice, is  
7 recommendations coming back to the Board as to how can we  
8 execute on these kinds of policies?

9 So thank you.

10 CHIEF INVESTMENT OFFICER MUSICCO: Thank you.

11 CHAIRPERSON MILLER: Thanks very much.

12 I don't see any other requests to speak. And so  
13 I think that pretty much covers Item 6b. I want to just  
14 double check, did we have any public comment in the room  
15 or on the phone for this item?

16 BOARD CLERK ANDERSON: (Shakes head).

17 CHAIRPERSON MILLER: No. Okay. And I think we  
18 can probably finish up with 6c before we break for lunch,  
19 and that's the quarterly Chief Investment Officer reports,  
20 if there's any -- anything additional to cover?

21 CHIEF INVESTMENT OFFICER MUSICCO: Okay. Great.  
22 Thank you.

23 CHAIRPERSON MILLER: Thank you.

24 CHIEF INVESTMENT OFFICER MUSICCO: As we  
25 mentioned earlier, this is our quarterly report.

1 (Thereupon a slide presentation).

2 CHIEF INVESTMENT OFFICER MUSICCO: We've revamped  
3 the look and feel. The idea is to give you the story  
4 behind the numbers. And I'll have Lauren join me to give  
5 you the economic background and then I'll just briefly  
6 touch on where we are quarter. As you know, as we often  
7 say, we're long-term patient investors, but it's important  
8 for us to keep the eye on the ball as far as what's going  
9 on quarter to quarter as well.

10 CHAIRPERSON MILLER: Excellent.

11 CHIEF INVESTMENT OFFICER MUSICCO: And so with  
12 that I will pass it over to Lauren.

13 Thank you.

14 INVESTMENT MANAGER ROSBOROUGH WATT: Thank you.  
15 Thank you for having me here today. Thank you, Chair  
16 Miller, Vice Chair Taylor, President Taylor. Lauren  
17 Rosborough Watt, Investment Manager in the Investment  
18 Office at CalPERS.

19 --oOo--

20 INVESTMENT MANAGER ROSBOROUGH WATT: For the last  
21 year and a half now, we have been talking about the slow  
22 down -- the global slow down and U.S. slow down following  
23 the post-pandemic boost. And we've certainly seen that  
24 over the past year of which I will talk to you.

25 The moves that we have seen have been somewhat

1 bumpy, I would say, globally, but should come out the  
2 other side on a macro sense relatively well to date.

3 I'm going to go through what happened pretty much  
4 over the last year and also post the end of the quarter -  
5 I know this is a quarterly review - simply to give you  
6 some perspective. It does mean today's discussion will be  
7 a little bit more detailed -- somewhat more detailed than  
8 I normally do and also a little longer, but I promise not  
9 to make a habit of it.

10 All right. So when I look at the returns over  
11 the last quarter, and over the last year, and then what's  
12 happened, there's been quite a lot going on. So I'm going  
13 to back up to Q3 2022. So back then earnings expectations  
14 for U.S. corporates for 2023 were revised down, which was  
15 subsequently priced into public equity returns.  
16 Concurrently, there was an emerging markets situation for  
17 emerging and frontier markets. So those economies that  
18 were less robust were struggling to maintain debt  
19 sustainability in light of higher interest rates, also in  
20 lights of rising food and energy prices following the  
21 Russia-Ukraine crisis, and also due to a stronger U.S.  
22 dollar, as some of their debt is issued in U.S. dollar  
23 terms.

24 Liquidity, in general, was falling across some  
25 markets, for example, in the U.S. treasury market and in

1 conjunction with wider uncertainty around the future and  
2 the global pull back from quantitative easing. This was  
3 reflected in higher-than-typical market volatility. So  
4 I'm referring to the moves that we saw September, October  
5 2022 to put into perspective.

6           What we did see though was little spillover or  
7 market contagion. And by the end of the year, financial  
8 markets were pricing in this continued slow down globally,  
9 have I've spoken to you around, but also some respite, and  
10 in particular pricing in that central banks would reduce  
11 interest rates as growth and inflation slowed into this  
12 year.

13           There was also some positivity around the  
14 reopening of China's economy. Now, specifically for the  
15 U.S., market pricing was anticipating the FOMC would end  
16 its rate hiking cycle in April. That was after January  
17 and March rate hikes. And then pricing anticipated that  
18 interest rates would decline in the second half of this  
19 year to be 50 basis points or half a percent lower than  
20 its peak by the end of this year. And it's quite  
21 different now and I'll speak to that as well.

22           You'll also recall in the first quarter of this  
23 year, the U.S. economy experienced another event, and that  
24 was the regional banking crisis or situation. And again,  
25 this illustrated the vulnerability of interest rate

1 sensitive sectors to high financing costs. We have seen  
2 some of that reflected in asset returns, and perhaps Ms.  
3 -- we will speak to that a little later.

4 But what we did see was that official agencies  
5 put liquidity provisions in place to support the industry.  
6 And this materially reduced the probability of wider  
7 market dislocation.

8 And finally, in the period following the end of  
9 this quarter, there was a third event risk in the U.S. and  
10 global economy that we've all managed to sidestep - we  
11 meaning the global and U.S. economies - and that being the  
12 debt ceiling negotiations. The markets since then has  
13 responded positively to the move through these  
14 negotiations and the signing of the new bill. So as you  
15 can see, there's been a number of events and changing  
16 market expectation in response to these events, of which  
17 we have seen in our asset returns.

18 Now so far, I've spoken to events and market  
19 expectations and some of the movement, but let me speak  
20 briefly to the macro economy side. And U.S. real economic  
21 activity, it continued to ease back this year. It was an  
22 average of 2.1 percent annual average year on year over  
23 last year. In Q1, the year-on-year figure was 1.6  
24 percent. Now, there was sentiment deterioration also  
25 through last year and also some slowing domestic demand.



1           But the quarterly outturn itself was modestly  
2 robust. So we've had a boost in government spending or  
3 perhaps less fiscal drag is one way to put it, less drag  
4 from the fiscal side. We've got a tight labor market and  
5 also accumulated household excess savings. And those  
6 three factors are expected to be a thrust -- macroeconomic  
7 thrust throughout the remainder of this year.

8           Financial markets are no longer pricing in rate  
9 cuts over 2023. And it is also not certain whether the  
10 U.S. economy will move into a recession this year. What  
11 we are seeing is still some divergence. So equity markets  
12 more generally, according to equity analysts are pricing  
13 for a mild slow down, while the treasury yield curve is  
14 inverted, which historically has signaled an impending  
15 recession.

16           Globally, developed market economies also  
17 continue to slow with Europe in a technical mild recession  
18 and some central banks, Reserve Bank of Australia, Bank of  
19 Canada, for example, started raising interest rates again  
20 after pausing earlier this year.

21           So if there's any one takeaway, it would be that  
22 given the event risks - we've had three over the last nine  
23 months - that the economy, U.S. and global economies have  
24 managed, this is a relatively good news macro story. That  
25 said, the balance of risks still remain to the downside to

1 growth and the upside for inflation and core inflation.

2 Thank you for your time.

3 CHIEF INVESTMENT OFFICER MUSICCO: Thank you,  
4 Lauren.

5 If we could just turn the page to the dashboard,  
6 I'll touch briefly on the bits in the dashboard.

7 --o0o--

8 CHIEF INVESTMENT OFFICER MUSICCO: So again, as  
9 we evolve to trying to summarize and make this report  
10 helpful, this is one of the key things that I'm looking at  
11 within my own CIO dashboard extremely regularly.

12 So first off, we'll show -- we've -- we wanted to  
13 make sure that the Board is always quickly aware of where  
14 we are versus allocation targets to where we are today, as  
15 well as have a quick dashboard on performance. So just on  
16 performance, again, we keep our eye on the ball of the  
17 long-term return, but we want to make sure everyone is up  
18 to speed on where are. So you see the 10-year, the  
19 5-year, and the fiscal year to date return. As far as --  
20 we've also added this concept, and you'll start to hear us  
21 talk a lot -- about it a lot more, which is the 5-year  
22 cumulative value-add. This is where that dollar value-add  
23 concept comes into place. We'll start talking and  
24 thinking about that a lot more.

25 The other part of the dashboard we flagged for

1 you is around volatility. You'll see it's relatively  
2 stable with respect -- or it's in line with our strategic  
3 asset allocation expectations. Tracking error continues  
4 to be relatively low at 15 basis points compared to the  
5 100 basis point limit that we have. And the plan  
6 liquidity remains adequate, with a 1.1 coverage when we  
7 look at our 30-day stress case.

8 If you move to the next page, please --

9 --o0o--

10 CHIEF INVESTMENT OFFICER MUSICCO: -- I'll just  
11 briefly touch on market dynamics and highlights of the  
12 quarter performance, again keeping in mind we think about  
13 long-term performance here.

14 I'll start with fixed income. The global fixed  
15 income allocation returned 3.7 percent during the quarter,  
16 which was in line or equal to the benchmark return.  
17 Within fixed income, the mortgage segment and the high  
18 yield segment outperformed during the quarter by 10 and 14  
19 basis points respect -- respectively. The emerging market  
20 debt segment and the treasury segment performed in line  
21 with their benchmarks. And the investment grade corporate  
22 segment underperformed by 31 bps during the quarter, in  
23 part due to losses in Silicon Valley Bank, but also just  
24 the broader banking sector stress.

25 On the equity side, we saw during Q1 of '23, all

1 public market segments generated positive returns. As  
2 Lauren touched on, the markets were forecasting the Fed to  
3 pivot from raising interest rates to cutting rates in  
4 order to avoid potential recession. The public equity  
5 allocation returned 5.9 during the quarter, which is  
6 slightly below the benchmark of 6.1. The factor-weighted  
7 segment returned 2.8, which was in line with its  
8 benchmark, while the cap-weighted returned 7 percent,  
9 which was 16 bps below its benchmark.

10           While all styles and factors had positive returns  
11 during the quarter, growth and quality were the main  
12 drivers of global public equity returns. I will flag for  
13 everyone, as Lauren just touched on, there does remain a  
14 lot of uncertainty regarding the direction of the economy,  
15 whether or not interest rates remain higher for longer  
16 would cause a recession, which would in turn obviously  
17 negatively impact asset returns. So all of us are keeping  
18 an eye on where inflation is going as well.

19           If you flip to the next page on private markets,  
20 I'll just give a few high level.

21                           --o0o--

22           CHIEF INVESTMENT OFFICER MUSICCO: So for private  
23 markets in general we're seeing the rising cap rates and  
24 increased interest rates are obviously putting downward  
25 pressure on valuations. The economic uncertainty has

1 contributed to the steep decline in real estate  
2 transaction volumes, so we're not seeing the same volume  
3 of deals being done. I'd say similarly infrastructure,  
4 we're seeing a slower pace of transactions as well as  
5 private equity deal flow for now.

6           Despite the pressure on real estate valuations,  
7 the fundamentals are mostly stable across real assets,  
8 although the office sector still does remain challenged.  
9 Rising rates, recent destabilization in the banking  
10 sector, and slowing growth are all risks within our  
11 private market program.

12           One area of bright side for us is that well  
13 capitalized investors may really benefit from this  
14 dislocation that we're seeing in the market. With the  
15 number of conferences or chatting with my own network,  
16 it's been encouraging to hear that despite us having not  
17 participated in some of the private markets over the last  
18 decade that we touched on in earlier Board meetings, there  
19 is real opportunity for us. We have some, you know, real  
20 opportunity to work alongside a number of our partners who  
21 are seeing the dislocation and think to us now as being a  
22 first call. We've demonstrated that we can be agile, that  
23 we have the resources and decision making platforms in  
24 place to be agile first calls for these partners.

25           And so I'm looking forward to seeing how we can

1 participate in some of this market dislocation. That goes  
2 for real estate, infrastructure, as well as the private  
3 equity market in general.

4 The next page please on risk.

5 --o0o--

6 CHIEF INVESTMENT OFFICER MUSICCO: As you'll see  
7 from this chart that most of the risk in our portfolio is  
8 driven by assets that do better in environments of strong  
9 economic growth, which does include our public and private  
10 equity, real estate, and the more credit-oriented aspects  
11 of income. The chart -- this chart we'll show you, which  
12 comes from our quantitative risk model, it shows that the  
13 contribution to risks from the various asset segments,  
14 which gives you a -- from a risk perspective, this gives  
15 you this understanding that the fund overall is  
16 correspondingly very sensitive to an economic recession.

17 So for all of those reasons, you know, we're  
18 spending a lot of time thinking through risk mitigation  
19 strategies. We're making sure that our tracking to the  
20 strategic asset allocation is on pace, which I've said it  
21 absolutely is, and we continue to use our CIO forums to  
22 make sure that as we learn what's going on and what we see  
23 going on in the market around us, that we're being  
24 responsive, and getting ahead of, where we can, some of  
25 these markets dynamics.

1           And so with that, I'll pause. Hopefully between  
2 the report and me touching on some high level pieces,  
3 we're starting to give you an easier glimpse into what it  
4 is that we're seeing quarter to quarter and as importantly  
5 longer term.

6           CHAIRPERSON MILLER: Yeah. Thank you. And I,  
7 for one, really like the format of the presentations and  
8 the selection of the material. Very thoughtful and very  
9 helpful.

10           So first, I have a question from President  
11 Taylor.

12           VICE CHAIRPERSON TAYLOR: Yes. Thank you, Chair  
13 Miller. So thank you for this report. The way you did  
14 it, it's nice to see it a little differently. I think  
15 it's a little -- for me at least, it's a little easier to  
16 absorb. So I have to ask, because I look at value-add in  
17 a million different ways, what is your 5.7 bill -- on page  
18 four, the value-add here that you've got -- you've got  
19 total return and then the bottom you have value-add,  
20 10-year, 5-year, and fiscal year to date. What does that  
21 mean? What is that value-add number?

22           CHIEF INVESTMENT OFFICER MUSICCO: When we come  
23 back to you in the fall with our strategic destination, we  
24 have in our minds a very specific number, a real target  
25 that we will -- we hope to be able to say to you this is

1 what we want to be held accountable for delivering over a  
2 cumulative period of five years, 10 years for dollars  
3 value-add.

4 I'd say I'm -- knowing what I know, and knowing  
5 what we've been working with, and where the markets are,  
6 and the tools we've had, and the amount of passive  
7 investing, and selectively active investing, I'm pleased  
8 with this -- these dollar value-add, but I'd like to see  
9 the one-year value-add target be more aggressive. I'm not  
10 going to give you the answer until I come forward with the  
11 strategy, but I can assure you that a two billion target  
12 we can be more aggressive than that with what we're going  
13 to hold ourselves to for our strategy 2030.

14 VICE CHAIRPERSON TAYLOR: I'm still confused,  
15 Nicole. I'm sorry. So are you saying that these numbers  
16 are -- you're adding \$5.7 billion to the portfolio over 10  
17 years?

18 CHIEF INVESTMENT OFFICER MUSICCO: Yes. Yes.  
19 That's the value-add.

20 VICE CHAIRPERSON TAYLOR: Okay. That's what I  
21 was trying to --

22 CHIEF INVESTMENT OFFICER MUSICCO: But if you ask  
23 me as a CIO am I happy with that number, I'd say that's a  
24 very respectful number. But for us and our ambitions to  
25 become a best-in-class investor, we will be more ambitious



1 than a two billion target value-add per year. You will  
2 see more come out of us than that --

3 VICE CHAIRPERSON TAYLOR: Okay. That's what I  
4 need --

5 CHIEF INVESTMENT OFFICER MUSICCO: -- based on  
6 our active strategies and everything we have in play,  
7 thinking through the 2030 lens.

8 VICE CHAIRPERSON TAYLOR: Okay. Excellent.  
9 Thank you.

10 CHAIRPERSON MILLER: Okay. Next, Director  
11 Middleton.

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

14 Nicole, you referenced real assets with the word  
15 challenges. And we've all, in general media and  
16 everywhere else, been reading all kinds of stories about  
17 where real estate is moving, most particularly core office  
18 building real estate that's been. So could you talk a  
19 little bit about the challenges, but more importantly as  
20 we start to think long term, is there a change in what we  
21 should be expecting and seeing in terms of the role that  
22 real assets is going to play in the total portfolio?

23 CHIEF INVESTMENT OFFICER MUSICCO: Yeah, I'm  
24 happy to answer. And as always, I'll bring up Sarah Corr  
25 as well to add to any comments that I might have.

1           You know, the world right now is all looking  
2 through -- is looking through the same challenges for real  
3 assets in particular. For our program, when we've done  
4 our deep -- our deep dive, given a bunch of work that was  
5 done well before I arrived on the scene, we have a well  
6 diversified program for the most part across sectors. And  
7 when we look at each of the individual sectors in which we  
8 are investing in real assets, most, as I mentioned, are  
9 performing well, save for the office piece, which all of  
10 us around the world are all grappling with the change in  
11 market dynamics, where we are with interest rates, et  
12 cetera.

13           I think a flight to quality in general is going  
14 to be a theme that you'll hear across our investment  
15 programs, but in particular for real estate. I think  
16 aligning ourselves with partners that understand that we  
17 need appropriate fee structures in place that reward  
18 outperformance, but not just pay to play, is going to be a  
19 very important piece of our strategy going forward. The  
20 team has done a very good job at having a -- they whittled  
21 down -- again, well before I arrived, they whittled down  
22 the number of partners and the groups, and even within  
23 real estate and infrastructure a very concentrated program  
24 across very specific partners within each of the different  
25 sectors that we have access to.

1 I think that that's a strategy you should see us  
2 continuing to deploy within real assets, because there  
3 absolutely is still a role for real assets in our program.  
4 I think where you'll start to see more of a thematic  
5 shift, if you will, will be in our infrastructure program.  
6 I think there's a lot of opportunity for us to be  
7 investing in infrastructure through a sustainable  
8 investing lens to kind of kill two birds with one stone.  
9 So thinking about where can we be investing in  
10 infrastructure that helps us progress our sustainable  
11 investing thematics would be an example. And back to the  
12 real estate side, as we said, I think this flight to  
13 quality using our sustainable investing lens when we  
14 choose who we're investing with, and how they are  
15 deploying their capital, and whether they themselves are  
16 thought -- are thought leaders, best in class in investing  
17 sustainably will become more and more important us as we  
18 move forward.

19 So maybe I'll shift to Sarah to add any other  
20 comments there.

21 MANAGING INVESTMENT DIRECTOR CORR: Yeah, I'll  
22 just add a few high level comments and I'll have more  
23 comments in my later presentation.

24 As far as the flight to quality, because we have  
25 focused so much on core in the real estate portfolio, the

1 port portfolio that we own is high quality. That does not  
2 mean that there is not going to be write-downs in it and  
3 there's not going to be problems in it, but it is a high  
4 quality portfolio that we currently own, well located  
5 assets, well positioned. So you will see some pressure on  
6 the valuations, but it -- I think it will sustain through  
7 the longer term.

8 As far as office goes specifically, we are sort  
9 of thinking about that. I'd prefer to talk about that in  
10 the strategy session, go forward strategy session in  
11 closed session later this afternoon.

12 COMMITTEE MEMBER MIDDLETON: Okay. Thank you.

13 CHAIRPERSON MILLER: Okay. Director Pacheco.

14 COMMITTEE MEMBER PACHECO: Thank you very much.  
15 Thank you, Nicole. I just want to bring up my question  
16 here. I am looking at -- well, first of all, I want to  
17 kind of add a little -- a little addition to what  
18 President Taylor had mentioned about the value -- the  
19 dollar value added. Now, in the metrics -- in the matrix  
20 that you mentioned, the 10-year cumulative value added is  
21 like 5.7 billion, right? And I also noticed that in the  
22 forecast actionable tracking error, we have 50 basis  
23 points. From my understanding, we have a hundred basis  
24 points, which is part of our policy limit. Now, do we  
25 have -- because of that, we have an opportunity to

1 increase our active investment. And hopefully, in the  
2 long run, that particular cumulative value-add should be  
3 higher. Is that -- is that right or is that -- is that  
4 the vision? I'm just trying to understand that.

5 CHIEF INVESTMENT OFFICER MUSICCO: That is the  
6 vision and that's why I -- when I think about am I -- am I  
7 proud, is this what I'm holding -- is this the standard  
8 I'm holding us to --

9 COMMITTEE MEMBER PACHECO: Um-hmm.

10 CHIEF INVESTMENT OFFICER MUSICCO: -- I'm saying  
11 to -- we as a team all believe we have real opportunity  
12 here by doing more in active investing over time, whether  
13 through public or private markets. We have a real  
14 opportunity in front of us to be adding more dollars  
15 value-add over time, because we are building our  
16 expertise, if you will, into some of the more dollar  
17 value-add generating type strategies. And so we're  
18 looking forward to being able to show you over the long  
19 run that those numbers will be bigger than what they  
20 appear here.

21 And we have lot of -- there's real benchmarking  
22 for us to take a look at for this. We spend a lot of time  
23 thinking about how we compare ourselves to other and where  
24 we -- other organizations and where we want to be to be  
25 deemed best in class. And so we're not pulling the

1 numbers out of thin air. We're going to set ourselves  
2 with reasonable goals. And it's just again if there's a  
3 number on the screen, equally important to think about  
4 through a long-term lens, because you're going to get ups  
5 and downs in the markets obviously, in addition to total  
6 return would be for dollars value-add. So as long as  
7 everyone is geared and understand that the dollar  
8 value-add concept is a long-term, rolling, cumulative  
9 concept, then it's a useful tool for us to assess whether  
10 we're getting enough bang for the buck when we're  
11 investing our active dollars --

12 COMMITTEE MEMBER PACHECO: Fantastic.

13 CHIEF INVESTMENT OFFICER MUSICCO: -- active  
14 risk.

15 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: A  
16 hundred percent absolutely agree with everything that  
17 Nicole said. The only thing I would add -- two quick  
18 things. Number one, remember that that 15 basis points of  
19 actionable tracking error --

20 COMMITTEE MEMBER PACHECO: Um-hmm.

21 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:  
22 -- that includes only the public assets --

23 COMMITTEE MEMBER PACHECO: That's right.

24 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:

25 -- and the allocation effect. The total dollar

1 value-add includes that, but also includes risk being  
2 taken in private assets. And, in fact, the lion's share  
3 of the dollar value-add that you see is coming from the  
4 private assets.

5 COMMITTEE MEMBER PACHECO: I see now. I  
6 understand. And actually that's -- that gets to -- me to  
7 the next question I had, which is on slide number 6. And,  
8 you know, I see that the private equity -- equities had a  
9 really meaningful outperformed over the three- and  
10 five-year period. You know, I'm just curious how can the  
11 team sustain that premium return over the public equities,  
12 if you guys can elaborate on that?

13 CHIEF INVESTMENT OFFICER MUSICCO: Sorry, can you  
14 just -- can you just clarify what you're saying?

15 COMMITTEE MEMBER PACHECO: Sure. Sure thing.  
16 So, yeah, so the public equities -- you know, I noticed it  
17 right there the five- and three-year charts right there,  
18 they've had a pretty robust -- they pretty -- outperformed  
19 basically in the five- and 10-year. And I just want to  
20 know how the team may or can sustain that premium return  
21 over the public --

22 CHIEF INVESTMENT OFFICER MUSICCO: Public within  
23 the private equity program itself, yeah.

24 COMMITTEE MEMBER PACHECO: Yeah. So between  
25 the -- I'm looking at between the private and the public.

1 CHIEF INVESTMENT OFFICER MUSICCO: Absolutely.  
2 This is really where building up that skill set in direct  
3 investing and co-investing is going to make or break our  
4 ability to do that. Separate from the mark -- the  
5 pressure -- the valuation pressures and everything that --  
6 the market dynamics, if you will, where we're all  
7 expecting that valuations do come down, separate from  
8 that, our ability to generate outsized returns within  
9 private equity, there's no mystery to it. It's our  
10 ability to do it in a more cost efficient manner, which  
11 comes in the form of co-investment, which is why the team  
12 is so focused on making sure we have the right partners  
13 that give us access to deals of scale, so that we can be  
14 deploying capital in a more efficient manner.

15 COMMITTEE MEMBER PACHECO: Excellent. Thank you  
16 very much for those comments.

17 CHAIRPERSON MILLER: Okay. Controller Cohen.

18 COMMITTEE MEMBER COHEN: Great. Thank you. Good  
19 afternoon. Is it afternoon? Yes, it is afternoon.

20 So I just had two questions that I wanted just to  
21 go over. So although private equity is -- although  
22 private equity has had negative short-term returns, it has  
23 outperformed benchmarks in three of the five-year periods.  
24 I'm specifically speaking from slide 6. And I was just  
25 wondering do you expect this trend -- do you expect this



1 trend to continue?

2 CHIEF INVESTMENT OFFICER MUSICCO: The trend of  
3 outperformance?

4 COMMITTEE MEMBER COHEN: Um-hmm.

5 CHIEF INVESTMENT OFFICER MUSICCO: Yeah, I mean,  
6 that's -- that is our -- that's the philosophy behind us  
7 making sure that we have an allocation to private markets  
8 in general, private equity in general. The measurement of  
9 private equity performance is done on a lagged bases. So  
10 you don't -- it's not a like-for-like. It's hard to make  
11 those comparisons in the short period. It's much easier  
12 to get a gut feel for whether the asset class as a whole  
13 is performing when you look at over the long period, just  
14 because the way the measurements are done on a lag. But  
15 yes, we absolutely believe that we can still get a premium  
16 for investing in private markets. Our program will  
17 benefit even more so by moving into more of that direct  
18 investing approach that is within private equity, because  
19 the fee and carry bits that are very expensive to a  
20 private equity program start to average down when you're  
21 able to deploy capital a lot -- fee free, carry free  
22 capital alongside fund investments.

23 COMMITTEE MEMBER COHEN: Okay. So my second  
24 question is is given the current financial market forces,  
25 should CalPERS be making any tactical changes now to

1 preserve liquidity in returns?

2 CHIEF INVESTMENT OFFICER MUSICCO: Right now, I  
3 mean, we're very -- we're very comfortable, and we've  
4 become very good at staying on top of both through the  
5 systematic approach we're using to measure liquidity, but  
6 also the tools we've been putting in place. So from a  
7 liquidity perspective --

8 COMMITTEE MEMBER COHEN: Um-hmm.

9 CHIEF INVESTMENT OFFICER MUSICCO: -- I think the  
10 team is very much on top through that total fund  
11 optimization activities, but even -- again, leading up to  
12 before I arrived, CalPERS has a very robust tool in place  
13 to make sure that we're on top of liquidity, which we're  
14 very comfortable with. We're also very comfortable with,  
15 you know, where we're leaning towards for our strategic  
16 asset allocation. There's complexity -- if you -- if you  
17 dig into the weeds of each of those asset classes though,  
18 there are ways for us to be deploying the capital more  
19 efficiently. So when I think about tactical, I'm not  
20 thinking about it in a traditional make it like tilt one  
21 way or the other. We're heading in the direction of  
22 investing into the SAA. We might be ahead of pace and  
23 we'll come back to the Board if we think that that's going  
24 to be the case.

25 If we're ahead of target, if you will, it takes a

1 bit of time to leg into a strategic asset allocation. So  
2 we may, like we did with small strategies right now, get  
3 ahead, so that we're at the SAA. But beyond that,  
4 tactically, to use the phrase differently, it's more about  
5 execution and approach to execution. So making sure we're  
6 very, very clear on who the partners are, that they're  
7 best in class, that we're leaning into sectors that we  
8 think -- that we -- that we have conviction in, making  
9 sure that we're investing the dollars efficiently the way  
10 that we just described through more direct investing  
11 approaches. Those are the tactics we'll use as opposed to  
12 tactical asset allocation where we're veering away from  
13 what we otherwise told the Board we believed in through  
14 the SAA.

15 COMMITTEE MEMBER COHEN: Um-hmm. So to use your  
16 words, execute, do we -- do you have the resources, does  
17 your team have the resources that you need in order to  
18 properly execute?

19 CHIEF INVESTMENT OFFICER MUSICCO: Yeah, we're  
20 build -- we've been building and we've had great traction  
21 in the market. It takes time to bring individuals on.  
22 And when we can't bring the individuals on directly into  
23 CalPERS, we spend a bunch of time finding strategic  
24 partners to help us deploy the capital, to bring the  
25 resources to bear, kind of pulling the resources in, if

1 you will.

2 COMMITTEE MEMBER COHEN: Um-hmm.

3 CHIEF INVESTMENT OFFICER MUSICCO: Over time  
4 though, we need to get to an equilibrium, we need to get  
5 to a strategy that makes sense for the resources we have.  
6 Right now, we're doing a combination of knowledge transfer  
7 to build the in-house capabilities and leveraging outside  
8 capabilities through partners.

9 COMMITTEE MEMBER COHEN: So when I hear you  
10 listen -- when I -- when I listen to you answer the  
11 questions, it sounds like you're saying, yes, this is  
12 good. This is where we are right now. However, in the  
13 future, it's like you have an idea on where you'd like us  
14 to be.

15 CHIEF INVESTMENT OFFICER MUSICCO: Well, the idea  
16 being that over time the more that we can invest in a cost  
17 effective manner, which is -- which is, aka direct  
18 investing. That's a very different skill set --

19 COMMITTEE MEMBER COHEN: Um-hmm.

20 CHIEF INVESTMENT OFFICER MUSICCO: -- than  
21 someone who even co-invests or someone that fund invests,  
22 as one example for one asset class.

23 And so it's very difficult to bring those  
24 resources in-house, but that doesn't mean we can't do it.  
25 It just means we have to find partners that we feel are

1 aligned with what our mission is and what we're trying to  
2 accomplish and make sure we're getting access to the deal  
3 flow that they have in a cost efficient manner, i.e.  
4 co-invest.

5 COMMITTEE MEMBER COHEN: Do you have a timeline  
6 in mind? Are you -- like when that person manifests,  
7 you're going to jump on it, and snap them up, and bring  
8 them in-house or is it -- are you thinking, okay, end of  
9 fiscal year, or next year, or is there some kind of an  
10 action timeline associated to building us and getting to  
11 this destination?

12 CHIEF INVESTMENT OFFICER MUSICCO: We can -- we  
13 can get to the strategic destination with the resource  
14 plan we have in place today --

15 COMMITTEE MEMBER COHEN: Okay.

16 CHIEF INVESTMENT OFFICER MUSICCO: -- because  
17 we're always supplementing it. It's a reality of being a  
18 public pension plan. I can't hire people and pay them a  
19 carry, if you will, like you can in the outside world with  
20 a -- and we don't try to compete for those resources, but  
21 what we do do is say if this is our strategic destination  
22 and here's where we want to get to, we're going to be able  
23 to get there a good chunk of the way with in-house  
24 capabilities. We're going to spend the next five to seven  
25 years leveraging and knowledge transferring from strategic

1 partners, and work with partners along the way.

2           And so the Board should hear loud and clear, I  
3 don't have any concern that we can't get to our strategic  
4 destination. It's going to be a combination of resources  
5 we have, the tooling, and the knowledge, and the learning  
6 that we're going to bring to our own workforce, as well as  
7 leveraging outside third parties. It's not that -- that  
8 approach is no different than even some of the  
9 organizations around the world that have very strong  
10 in-house direct deal teams. We're not going to have that  
11 tomorrow, but we will grow into that, either through  
12 training over time -- and I've told the Board historically  
13 that's like a 10-year journey. It takes a long time to  
14 learn how to do direct deals. In the -- in the meantime,  
15 we absolutely have the in-house capabilities to work  
16 alongside smart partners. And we're seeing that already.  
17 We deployed almost \$4 billion in co-investment and that's  
18 because our team is working hand in glove with smart  
19 partners.

20           And so you do three, four, five deals, all of a  
21 sudden you're getting better and better at being a direct  
22 deal individual, you make sure you have the right  
23 mentoring and training culture in place, and that  
24 knowledge transfer starts to happen organically within the  
25 organization. And over a period of five, seven, ten

1 years, we're able to say hand in heart that we're capable  
2 in-house of doing a lot more on our own versus today where  
3 we need to rely on other fund investors.

4 COMMITTEE MEMBER COHEN: Thank you. Mr.  
5 Chairman, I have no other questions.

6 CHAIRPERSON MILLER: Thank you, Madam Controller.  
7 Excellent. Well, I think that covers all the  
8 questions. I see no more requests to speak and I don't  
9 believe we have any public comment on this item. So I  
10 think now we'll break for lunch, 1:15 sound good?

11 A little more?

12 VICE CHAIRPERSON TAYLOR: I'm thinking 1:30.

13 CHAIRPERSON MILLER: Okay, 1:30. So I'll plan to  
14 reconvene the Investment Committee at 1:30 after everyone  
15 has a chance to have lunch and stretch their legs, and  
16 we'll commence with 6d at that time.

17 Thanks. Enjoy.

18 (Off record: 12:42 p.m.)

19 (Thereupon a lunch break was taken.)  
20  
21  
22  
23  
24  
25

1 AFTERNOON SESSION

2 (On record: 1:33 p.m.)

3 CHAIRPERSON MILLER: Good afternoon, everyone. I  
4 hope you all had a nice break. We're going to reconvene  
5 this meeting of the Investment Committee and we will pick  
6 up with Item 6d, the private equity annual program review.

7 CHIEF INVESTMENT OFFICER MUSICCO: Great. Thank  
8 you very much. I just thought I would just reintroduce  
9 again Daniel Booth. He's our Deputy CIO of Private  
10 Markets. He oversees all private market activity with  
11 private equity, real estate, infrastructure. And we're  
12 just delighted to have him. He's already really rolled up  
13 his sleeves and hit the ground running. I was teasing him  
14 that when I first joined, I really tried hard just to do a  
15 look and listen for 90 days. And I said I think I lasted  
16 like 45.

17 (Laughter).

18 CHIEF INVESTMENT OFFICER MUSICCO: And he's  
19 already rolled his sleeves up, so I -- we're two kindred  
20 spirits in that front. So anyway, welcome, Daniel. Thank  
21 you. And Anton, you know, I'm really excited for you to  
22 see the progress. Again, when you think about how long  
23 Anton has been here what he and the team have been up to.  
24 Incredibly proud of the work that's been done there. And  
25 hopefully, you'll got a real sense just on some of the



1 questions that were asked earlier today about progress  
2 being made, resources being used, how we leverage in-house  
3 resources and external smart friends, if you will, Anton  
4 will get into the weeds on that with you as well. So  
5 without further delay, Anton. Thank you.

6 (Thereupon a slide presentation).

7 MANAGING INVESTMENT DIRECTOR ORLICH: Thank you,  
8 Nicole for the introduction and for all your vision and  
9 guidance in the implementation. And thank you to the  
10 Committee for the opportunity to present today.

11 Moving to slide 2.

12 --o0o--

13 MANAGING INVESTMENT DIRECTOR ORLICH: These are  
14 the topics we'll cover, program overview, market  
15 environment, portfolio performance, and operational  
16 updates.

17 Moving to slide 3.

18 --o0o--

19 MANAGING INVESTMENT DIRECTOR ORLICH: Just to set  
20 the stage on the role of private equity. I know we've  
21 covered this quite a bit, so I'll keep this brief. But  
22 the role of the asset class is to enhance the return that  
23 CalPERS receives for the equity or the ownership risk that  
24 it takes to harvest the liquidity premium in a way that  
25 adds ben -- value to the beneficiaries. The middle

1 section of the slide shows a snapshot of the portfolio as  
2 March 31st, 2023 and provides a starting point to see the  
3 opportunities to diversify the portfolio.

4           And the final section highlights CalPERS  
5 Investment Beliefs. A long-term horizon speaks to  
6 obtaining return in exchange for liquidity. And cost  
7 management speaks to co-investing, which the CIO  
8 highlighted in her presentation immediately before the  
9 lunch break, and that is covered further in the  
10 presentation.

11           Moving to page 4.

12                           --o0o--

13           MANAGING INVESTMENT DIRECTOR ORLICH: This  
14 graphic provides a breakdown of net asset value and  
15 unfunded commitments by vintage year. In other words, it  
16 is a breakdown of the 55 billion dollar figure on the  
17 prior page. The unfunded figure stands at about \$26  
18 billion and includes commitments in 2023. Just as a  
19 refresher, much of private equity investment is through  
20 drawdown structures. Commitments are made with a private  
21 equity manager and those are gradually called upon. Until  
22 it's called, it remains an unfunded commitment. As it's  
23 called, it becomes net asset value.

24           Moving to page 5.

25                           --o0o--

1           MANAGING INVESTMENT DIRECTOR ORLICH: The  
2 portfolio is diversified in some key areas, but there are  
3 significant opportunities to further diversify it, such as  
4 by strategy and by geography. We can point to  
5 diversification with managers, and industry, and  
6 underlying portfolio companies. The final bullet flags  
7 the long-term priorities for staff to realize the  
8 executive leadership's vision in making the portfolio  
9 innovative and resilient. Several of these will be  
10 discussed further in the presentation.

11           As you can see, there's a heavy emphasis on the  
12 United States geography representing about three-quarters  
13 of the portfolio. And staff is looking for opportunities  
14 to internationalize it further. When it comes to  
15 strategy, the portfolio is also almost three-quarters in  
16 buyout. And there are opportunities to expand it in  
17 venture and growth, which was a key point in consolidating  
18 the private equity and the growth and innovation  
19 pipelines.

20           Moving to page 6.

21                           --o0o--

22           MANAGING INVESTMENT DIRECTOR ORLICH: A critical  
23 way to diversify the portfolio in addition to geography  
24 and strategy is by structure, that is to do more  
25 co-investment. And this is an alternative to the

1 fund-based approach. However, it exists as a complement  
2 to the funds based approach and does not entirely replace  
3 it. Co-investment is one of the most effective ways to  
4 address costs. Importantly, many cost mitigation measures  
5 in private equity come at the expense of net returns, but  
6 increasing co-investment is a rare opportunity where  
7 reducing costs goes hand in hand with improving net  
8 returns.

9 Moving to slide 7.

10 --o0o--

11 MANAGING INVESTMENT DIRECTOR ORLICH: While staff  
12 monitors the economy, the main point here is to  
13 characterize our implementation as consistent. We're  
14 sensitive to the macroenvironment. We pay attention to  
15 its impact on the portfolio, but we would like to deploy  
16 consistently regardless of the macroeconomic environment.

17 Ironically, the more pressure there is  
18 macroeconomically has often been in conjunction with  
19 better vintage years or investment periods in private  
20 equity. It's hard to time those strong vintage years, so  
21 it's critical to be consistent in the deployment.

22 Key themes besides consistency in deployment are  
23 ESG frameworks, which we'll discuss in detail, the shift  
24 to co-investment, and there is a dynamic now with many of  
25 our peers overallocated to private equity to access

1 managers that historically have been difficult to obtain  
2 allocations with. And that's something that staff hopes  
3 to capitalize on.

4 Moving to slide 8.

5 --o0o--

6 MANAGING INVESTMENT DIRECTOR ORLICH: This  
7 graphic shows the PE team has been adding returns relative  
8 to the public equity markets and to the policy benchmark.  
9 The policy benchmark has embedded in it a premium to  
10 public equity performance. That's why we break out a  
11 comparison to the MSCI world and to the policy benchmark.  
12 In either case, the program has added value on the 10-,  
13 5-, 3-, and 1-year periods.

14 Moving to page 9.

15 --o0o--

16 MANAGING INVESTMENT DIRECTOR ORLICH: We're very  
17 proud of the accomplishments on the prior slide, but slide  
18 9 does provide an alternative measure of performance. The  
19 takeaway here is that PE can do more to deliver returns  
20 for CalPERS beneficiaries. In contrast to the prior  
21 slide, this one compares CalPERS private equity to two  
22 indexes that capture the broad opportunity set of private  
23 equity investments. For the most part, based on these  
24 measures, CalPERS can find additional opportunities within  
25 PE to improve returns in the asset class, and as a result

1 to the overall portfolio. In other words, build on our  
2 success relative to the public equity markets, success  
3 that we've already delivered.

4 Moving to slide 10.

5 --o0o--

6 MANAGING INVESTMENT DIRECTOR ORLICH: This page  
7 highlights the most important lesson in the last 10 years,  
8 consistent commitments. The graphic on the right shows  
9 that the underdeploy -- underdeployment that occurred  
10 happened to be in under -- in overperforming vintage  
11 years. The point is not to say that CalPERS should have  
12 timed the market better. That is very difficult to do,  
13 and frankly it's an unreliable way to generate returns.  
14 The goal is to be consistent, so that those strong vintage  
15 years are not missed. If you decompose the  
16 underperformance that has occurred relative to the  
17 opportunity set, you can trace it to this issue more than  
18 any other.

19 Moving to slide 11.

20 --o0o--

21 MANAGING INVESTMENT DIRECTOR ORLICH: The second  
22 point in providing more strategy diversification in the PE  
23 portfolio relates to movement away from buyout. Relative  
24 to the widely used opportunity set benchmark presented  
25 here, CalPERS is overrepresented in the buyout strategy.



1 begun to deliver on in a very strong way, especially over  
2 the last two quarters with approximately \$4 billion of  
3 co-investment. On the left, we see that co-investment  
4 performance has been in line or slightly better than fund  
5 performance. However, the amount deployed in  
6 co-investment has been relatively minor, so there's a  
7 great opportunity here to improve net returns. You can  
8 see on the right the increase that we've had in  
9 co-investment since 2019. And the last two quarters, the  
10 approximately \$4 billion represents the highest amount in  
11 absolute and relative terms for any six-month history of  
12 CalPERS.

13 Moving to page 13.

14 --o0o--

15 MANAGING INVESTMENT DIRECTOR ORLICH: Staff has  
16 been working hard to incorporate ESG into private equity,  
17 the privates portfolio and the overall portfolio. The  
18 next six slides provide highlights of that work. And this  
19 particular one shows the update on the public sector  
20 outsource policy. Over the last 12 months, the policy has  
21 been effective as evidenced by no waiver requests. And  
22 this has been it seems a value-added program.

23 Moving to that slide 14.

24 --o0o--

25 MANAGING INVESTMENT DIRECTOR ORLICH: We'd like



1 to introduce here three aspects of staff's ESG work. It's  
2 no by means exhaustive, but we would like to indicate the  
3 tremendous work we do here and the exciting developments  
4 that are in store to improve net returns, not at the  
5 expense of net returns.

6 First, further integration in investments, that's  
7 investment decisions, portfolio monitoring, and exiting of  
8 investments. As part of that, Peter Cashion has joined as  
9 the MID for sustainable investments and he will help each  
10 asset class in its implementation. There are aspects of  
11 ESG that apply to all asset classes and there are parts  
12 that are specific to a given asset class. And in  
13 conjunction with him, we will be able to navigate those  
14 differences.

15 A second highlight is the ESG Data Convergence  
16 Initiative. This is key to measuring progress. And  
17 without the data, we won't be able to see the impact, not  
18 just of our portfolio, but transitioning the economy in  
19 all the respects that we've been talking about including  
20 climate.

21 Lastly, the broader implementation representation  
22 of employees in ownership. An example of this is  
23 Ownership Works. There are other versions of it. Various  
24 general partners that we work with have their own  
25 increases of representation in their portfolio companies,

1 and there's been evidence that this enhances returns.

2 Moving to slide 15.

3 --o0o--

4 MANAGING INVESTMENT DIRECTOR ORLICH: On the left  
5 side of the slide, we see that ESG, and within that  
6 diversity and inclusion are significant focuses for the  
7 portfolio. Project Mosaic has already been committed to  
8 and begun. Engagement with managers and the application  
9 of those lessons with thought leaders outside the  
10 portfolio is underway. And we have used ESG frameworks in  
11 our investment decisions, both by including ILPA ESG  
12 questions and adding our own.

13 Project Mosaic we'll discuss in more detail, but  
14 this is a rare opportunity to use the fund of funds  
15 structure, which the portfolio usually avoids because of  
16 higher cost to write smaller checks, which are going to be  
17 more impactful on advancing the investment landscape with  
18 more diverse asset managers.

19 And this way, we can see it as an extension of  
20 the diversity theme. Just as we diversify by structure,  
21 and geography, and strategy, diversity in human capital is  
22 associated with higher returns.

23 The detail on the Project Mosaic is available on  
24 their -- the slide 16.

25 --o0o--

1           MANAGING INVESTMENT DIRECTOR ORLICH: We  
2 partnered with two firms, TPG and it's NEXT Strategy and  
3 GCM Grosvenor. Between the two, it represents \$1 billion  
4 of commitments. Think about this focus as the smaller  
5 sized checks, which would be too small for staff to write  
6 on its own, but ironically are the most impactful, because  
7 they're putting firms on the map, diverse entrepreneurs on  
8 the map, and will rise to the next generation of  
9 investable opportunities for CalPERS scale. I would like  
10 to emphasize we do have diversity in our direct portfolio,  
11 but in many ways those investments are with managers that  
12 have already arrived. And we target firms that over  
13 oversubscribed.

14           In that area, CalPERS investment is not making a  
15 difference between the return. It's not adding to the  
16 diversity of the landscape. This program is.

17           Moving to slide 17.

18                           --o0o--

19           MANAGING INVESTMENT DIRECTOR ORLICH: This speaks  
20 to the data convergence project which will be a long-term  
21 approach to maximize the participation of GPs and LPs.  
22 The process of adding both general partners and limited  
23 partners is itself focusing on the key initiatives that  
24 we've been discussing today, particularly in regard to  
25 climate.

1 Moving to slide 18.

2 --o0o--

3 MANAGING INVESTMENT DIRECTOR ORLICH: This is an  
4 example Ownership Works of efforts to increase the  
5 representation of shareholders, to increase alignment and  
6 therefore improve returns, and to address the issue of  
7 wealth and equality. This is more in the beginning stages  
8 and it's not the only type of program along these lines,  
9 but we're actively involved in increasing participation  
10 and Ownership Works.

11 Moving to slide 19.

12 --o0o--

13 MANAGING INVESTMENT DIRECTOR ORLICH: Echoing the  
14 discussion of the themes in the presentation, these are  
15 our priorities for the fiscal year. Continued integration  
16 and expansion of ESG initiatives. Increasing  
17 co-investments. We are at a very strong run rate, but  
18 co-investments are a treadmill. They have to be  
19 constantly sourced and executed upon. Geographic  
20 diversification will require some manager selection and  
21 also harvesting co-investments in geographies in which  
22 we're underrepresented. Building the venture program as  
23 part of integrating the growth innovation and buyout  
24 strategies. And we are working on ways to improve staff  
25 efficiencies and focus staff on high value-added work.

1           With that, open up to questions.

2           CHAIRPERSON MILLER: Okay. First, I have  
3 President Taylor.

4           VICE CHAIRPERSON TAYLOR: Thank you, Chair  
5 Miller. Anton, thank you very much. This is a very  
6 thorough presentation. And I have a couple of comments.  
7 First, I just -- I appreciate the sustainability efforts  
8 that you guys incorporated into the report here. As I'm  
9 looking at it, it looks like we're looking at some data.  
10 We have the data convergence project. We have the  
11 Ownership Works. I think we're all -- the whole -- the  
12 Board is very supportive of all of this and I think  
13 there's more that we could do.

14           But one of the -- first, I had a question. I'm  
15 trying to figure out -- earlier on you said -- mentioned  
16 relationships, that you're building relationships, that  
17 there was a little -- I just -- I don't remember what  
18 exactly I heard, but there was a little trouble with  
19 relationships it seemed like you were inferring. I'm not  
20 sure. Can you -- do you remember what it was you said?  
21 It felt like it was uncomfortable or something.

22           MANAGING INVESTMENT DIRECTOR ORLICH: No, I  
23 didn't intend to convey that. Sorry, if I did. My point  
24 along the ESG lines was to seek out the best thought  
25 partners on ESG, whether they're in or outside the

1 portfolio, and to apply the takeaways from those  
2 deliberations in the portfolio, so that we're best in  
3 class in ESG relative to all institutional investors,  
4 domestic or foreign.

5 VICE CHAIRPERSON TAYLOR: Okay, I see. So then a  
6 question would come out of that, which is have you talked  
7 to outside folks, such as the stakeholders of some of the  
8 private equity companies. So, for example, they own, I  
9 don't know, let's say a grocery store. Have you heard  
10 from those folks, the folks that have asked to be heard,  
11 you know, whether it's through freedom of association or  
12 harassment charges or anything like that, have you heard  
13 from those folks?

14 MANAGING INVESTMENT DIRECTOR ORLICH: As part of  
15 the monitoring function --

16 CHAIRPERSON MILLER: It's not a. --

17 MANAGING INVESTMENT DIRECTOR ORLICH: -- we're  
18 looking for an understanding about how our partners are  
19 tackling those issues.

20 VICE CHAIRPERSON TAYLOR: Uh-huh.

21 MANAGING INVESTMENT DIRECTOR ORLICH: And so  
22 those do bubble up in media. Sometimes we have direct  
23 inquiries. Also, there are organizations that serve as  
24 conduits to filter those concerns and they tend to be a  
25 really strong resource to highlight on the most acute

1 issues that require addressing. But I think in those  
2 discussions I was referencing earlier, we're seeking to be  
3 proactive and not just responsive to abuses that we find.  
4 To be sure, when we find problems, we engage with our  
5 investment partners to make sure that they're addressed.  
6 But I don't think that, you know, the aspirations that we  
7 have are best served by that alone. That's table stakes.  
8 We need to be addressing abuses and issues. But we're  
9 trying to find, especially with the SI initiative and the  
10 new MID hire, ways to be more proactive.

11 VICE CHAIRPERSON TAYLOR: Okay. Great. So then  
12 I'm going to leave it here and let others give you some  
13 ideas on how to be proactive.

14 CHAIRPERSON MILLER: Okay. Director Pacheco.

15 COMMITTEE MEMBER PACHECO: Thank you. Thank you,  
16 Chair Miller and thank you, Mr. Orlich, for your  
17 presentation. Really appreciated it as well. You know, I  
18 really appreciate the insight you provided on your  
19 current -- on the current concerns we have and the  
20 deployment themes, especially staying on target to max --  
21 to maximize our rate of return in the long run.

22 What I want to know is around the deployment of  
23 theme you highlighted associated with our focus on  
24 managers that employ the ESG framework. And, you know,  
25 when I -- you know, since we are moving -- you know, we're

1 moving our investment approach in this particular place  
2 and emphasizing our capital allocation more to the private  
3 equity, because as we know, private equity has been one of  
4 our most best performing profile classes in the long run.  
5 You know, I want to know if you -- you know, and also Ms.  
6 Walker had mentioned earlier this morning with Mr. Carney  
7 about the private equity principles that they were -- you  
8 know, they are -- they seem -- people seem to be more, you  
9 know, aligned with that. And I wanted to know your  
10 thoughts on that particular subject matter, especially at  
11 certain organizations like the American Investment Council  
12 has certain principles of that nature and others. And I  
13 just wanted to have your thoughts and how that could be  
14 thought about. Thank you.

15           MANAGING INVESTMENT DIRECTOR ORLICH: So this is  
16 definitely Peter Cashion's area of focus -- one of his  
17 areas of focus. I think that right now there's been a  
18 high amount of subscription to those principles and the  
19 different associations. And it's really an earnest effort  
20 now to deliver on the aspirations of those principles. I  
21 think you'd be hard pressed to find the respected  
22 organizations in that area that we're not signed up with  
23 and it's really about achieving execution on those  
24 principles.

25           So that's where we're, you know, working very



1 hard. I think a key point too I would make is we do  
2 tremendous work on the -- on the public portfolio in terms  
3 of voting proxies and so on. But I would underscore that  
4 there are real opportunities in private equity, because a  
5 vast majority is through buyout, which indicates control  
6 of companies, for us to work with our investment partners  
7 to secure positive change in a way that we just don't have  
8 the levers in the public portfolio.

9 COMMITTEE MEMBER PACHECO: Um-hmm.

10 MANAGING INVESTMENT DIRECTOR ORLICH: And many of  
11 the issues that we're talking about, public companies are,  
12 I think, falling behind --

13 COMMITTEE MEMBER PACHECO: Um-hmm.

14 MANAGING INVESTMENT DIRECTOR ORLICH: -- private  
15 companies, because of the work of institutional investors  
16 working with their partners to change the emphasis on ESG  
17 in a way that hasn't happened with many public.

18 COMMITTEE MEMBER PACHECO: I see.

19 MANAGING INVESTMENT DIRECTOR CASHION: And maybe  
20 I'll just add that in the public -- in the private equity  
21 space, there are really interesting opportunities across  
22 growth, climate tech. So these are the new technologies  
23 that will drive a lot of this needed change, and also in  
24 the buyout space, as Anton mentioned. So there's really  
25 interesting opportunities, both through funds and

1 co-investments in these areas.

2           And then with respect to the ESG integration, the  
3 standard is already very high. And I think that's  
4 reflective of CalPERS' commitment to this area, and we --  
5 what we have in the governance and sustainability  
6 principles.

7           COMMITTEE MEMBER PACHECO: Um-hmm.

8           MANAGING INVESTMENT DIRECTOR CASHION: We use  
9 questionnaires that are based off of the Principles for  
10 Responsible Investing and ILPA. As Anton commented, we're  
11 a founding member in Convergence and on the subcommittee  
12 of ESG for ILPA, the Limited Partner Association.

13           So -- but we really want to -- this is a fast  
14 moving area in terms of evolutions and best practice, so  
15 we're currently discussing with some consultants to do a  
16 review of our overall ESG integration to see if there are  
17 any areas where we can further deepen it, improve it, and  
18 be best in class in this -- in this important area,  
19 because we see it not only as a risk mitigant, but also as  
20 an opportunity driver. So for us, it's really top of  
21 mind, not just in private equity, but across each of the  
22 asset classes.

23           COMMITTEE MEMBER PACHECO: Yes, I'd like to  
24 follow up with that particular thing. I mean, I would  
25 like you to elaborate a little bit more about what you

1 exactly are elaborate -- alluding to with respect to the  
2 Principles of Responsible Investing? If you could just  
3 elaborate a little bit more? You mentioned something like  
4 that.

5           MANAGING INVESTMENT DIRECTOR CASHION: Sure.  
6 Well, these are long-standing principles and with frankly  
7 more focus on the S and the G.

8           COMMITTEE MEMBER PACHECO: Um-hmm.

9           MANAGING INVESTMENT DIRECTOR CASHION: I think  
10 historically that has been the focus. So we want to  
11 ensure that as we do this review with an external  
12 consultant that we're fully incorporating the "E"  
13 component, so the environment and the climate --

14           COMMITTEE MEMBER PACHECO: Um-hmm.

15           MANAGING INVESTMENT DIRECTOR CASHION: -- and  
16 factoring in those risks in our assessment, particularly  
17 as Mr. Carney mentioned earlier, the climate risk related  
18 to both physical risk and transition risk. And that's not  
19 only done at the time of origination when you're reviewing  
20 an investment, but also on your -- when you're evaluating  
21 your overall portfolio.

22           COMMITTEE MEMBER PACHECO: You know, I -- thank  
23 you for that comment. You know, the reason why I'm  
24 bringing this up is because, you know, a few months ago,  
25 we had a -- you know, we had a stakeholder come to us

1 about a particular issue with respect to one of our buyout  
2 firms, Blackstone. And, you know, it's my understanding  
3 that the Department of Labor recently found one of their  
4 portfolio companies, the Packers Sanitation had, you know,  
5 employed at least 102 children at 13 plants across eight  
6 states in conditions of oppressive labor -- child labor.  
7 And, you know, these kid were working overnight shifts and  
8 hazardous -- in hazardous conditions and with hazardous  
9 chemicals, and some of them were actually injured.

10           And basically the Labor Department, from what I  
11 understand is, that they -- their findings said they had  
12 a -- they represented a -- this particular portfolio  
13 company from Blackstone said they had systematic failures  
14 across their entire organization to ensure that their  
15 children -- that their children were not working in  
16 violation of the law. So that's disturbing in itself.

17           And, you know, and I think also in the -- there  
18 was an episode that was actually followed up in 60 Minutes  
19 that mentioned that there's no way that this was just a  
20 mistake or a clerical error.

21           You know, what I'm trying to understand is is  
22 because it's -- you know, these kind of situations happen  
23 in these particular areas and having some principles in  
24 place that may help -- may help us, you know, make sure  
25 that in the future this is not going to happen again.

1 And, you know, my particular -- you know, my understanding  
2 is is that some actions were taken, but I -- you know, I  
3 would like to know, you know, what -- you know, what staff  
4 said -- you know, what staff asked Blackstone in terms of  
5 explaining what actions had been taken or will be taken  
6 against the Blackstone executives who served on those  
7 boards, and -- because during those periods of time when  
8 the company's children -- child labor violations for their  
9 failed oversight at this company.

10 And moreover, I would also, you know, just make  
11 sure that, you know, we have some sort of system in place  
12 to not -- so that all our funds are good when -- we don't  
13 have these kinds of violations. So maybe have some  
14 sort of other elaboration.

15 But I would like you to address the first one and  
16 see -- and ask what has happened. I know it's a very  
17 uncomfortable subject matter. It's even uncomfortable for  
18 me to ask it, but sometimes we have to ask these difficult  
19 questions. So if you -- if you may. Thank you.

20 MANAGING INVESTMENT DIRECTOR ORLICH: I'll give  
21 you my two cents and then Peter can jump in. I mean, I  
22 think this is a great example of the need to stay on top  
23 of issues. And it's - you know, to President Taylor's  
24 question - an example of our swinging into motion through  
25 monitoring of a portfolio.

1 COMMITTEE MEMBER PACHECO: Um-hmm.

2 MANAGING INVESTMENT DIRECTOR ORLICH: So the fact  
3 pattern around the PSSI portfolio company is outrageous.  
4 And as a result, we aggressively pursued it. We're not  
5 invested in the company, but as you point out, Blackstone  
6 is a major investment partner.

7 COMMITTEE MEMBER PACHECO: Um-hmm.

8 MANAGING INVESTMENT DIRECTOR ORLICH: And so we  
9 did have standing to speak to the issue. So we engaged  
10 intensely with Blackstone on it. Made clear how  
11 reprehensible the findings were from the DOL. And it  
12 wasn't just about the reactive part, it was -- you know,  
13 and I'll talk to the punishments that were delivered  
14 appropriately so, but also working with Blackstone to  
15 understand, as you said, do they have the principles in  
16 place --

17 COMMITTEE MEMBER PACHECO: Right.

18 MANAGING INVESTMENT DIRECTOR ORLICH: -- to keep  
19 this from happening again?

20 Now, I think we can all agree, you know -- and  
21 this is what makes it so reprehensible, the child labor  
22 aspect of it --

23 COMMITTEE MEMBER PACHECO: Yes.

24 MANAGING INVESTMENT DIRECTOR ORLICH: -- that no  
25 one would accept -- no principle would accept that. So

1 it's also about implementation and making sure that the  
2 governance is there. And I think that the issue here was  
3 more around the governance point.

4 COMMITTEE MEMBER PACHECO: Yes.

5 MANAGING INVESTMENT DIRECTOR ORLICH: Although  
6 other cases, you know, we need to have the focus on the  
7 principles.

8 So Blackstone's senior leadership we didn't just  
9 have a dialogue. We demanded they come to Sacramento. We  
10 engaged with the senior leadership of the firm. We asked  
11 for a detail of all the actions that were taken to hold  
12 people accountable and the changes in their investment  
13 processes and monitoring to make sure that it does not  
14 happen again. Blackstone's leadership made clear to us  
15 they also found it unacceptable, and made clear that it is  
16 not consistent with the values of the firm. But it goes  
17 without saying, it's unacceptable to CalPERS staff,  
18 CalPERS enterprise, and the people of California.

19 COMMITTEE MEMBER PACHECO: Yes.

20 MANAGING INVESTMENT DIRECTOR ORLICH: I want to  
21 give you some examples of the steps that were taken. The  
22 management of those plants has clearly been replaced.  
23 There's new management at PSSI, including at the highest  
24 levels of the executive positions, but also the Board.  
25 There is now a detailed 13-point plan on employee

1 verification. And I'm focused on that, because that was  
2 the process point where things broke down.

3 COMMITTEE MEMBER PACHECO: Um-hmm.

4 MANAGING INVESTMENT DIRECTOR ORLICH: There's  
5 been settlement with the Department of Labor, along with  
6 paying a fine. And we've received assurances after  
7 encouraging Blackstone that they will engage in a more  
8 constructive manner with labor representatives. It's --  
9 that's not an exhaustive list, but those are the  
10 highlights of our conversations with Blackstone.

11 COMMITTEE MEMBER PACHECO: Thank you, Mr. Orlich.  
12 I appreciate that. I do. I think that is -- that  
13 seems -- I mean, with respect to the Chair -- I mean, the  
14 board of directors, now you mentioned there was some  
15 action. Who was -- was there any replacements or anything  
16 like that? Did they replace some individuals or...

17 MANAGING INVESTMENT DIRECTOR ORLICH: There were  
18 replacements with individuals on the Board and in the  
19 senior executive ranks.

20 COMMITTEE MEMBER PACHECO: So not just the senior  
21 executive ranks. This -- I know this is something else  
22 that I was researching on Blackstone. And I noticed on  
23 their website they have this Monday meeting that they do  
24 every Monday. And they -- they have -- they hash out  
25 with -- they talk about all their portfolio companies and



1 so forth. You know, how -- how is it that we've in --  
2 we've invested -- we've invested in -- you know, excuse  
3 me, a lot of money over the years with these companies and  
4 this happened? I mean, was it some over -- some oversight  
5 or some mecha -- some processes system that was -- that  
6 wasn't seen? I'm just -- it just seems so blatant and I'm  
7 just curious.

8           MANAGING INVESTMENT DIRECTOR ORLICH: The -- you  
9 know, I do think that there are some issues here that are  
10 broad in terms of the border crisis, the impact on the  
11 companies. You know, I don't want to make excuses. I  
12 feel as if any one incident is so outrageous that, you  
13 know, it's unacceptable. So, I mean, if I went through  
14 numbers and I said it's a small fraction of the employees  
15 of the firm, et cetera, I think it doesn't provide enough  
16 condemnation of what happened.

17           We are talking about, you know, approximately a  
18 hundred cases on a base of 70,000 --

19           COMMITTEE MEMBER PACHECO: Yeah.

20           MANAGING INVESTMENT DIRECTOR ORLICH: -- but no  
21 case is acceptable. You know, there was aggressive  
22 questioning around the ESG frameworks that they have in  
23 place. We benchmarked their ESG frameworks, and Peter can  
24 speak to this, relative to other, you know, private equity  
25 firms as part of that analysis.

1           We talked about their activities and investment  
2 changes since this 2018 investment where they stand today.  
3 And so I'll let Peter speak to those. But I do think we  
4 want to, you know, put it in context. And I think the  
5 lesson here overall is if we stay on top of the issue and  
6 force our partners to stay on top of the issue, then we  
7 can have more success in delivering on ESG principles even  
8 relative to the public markets.

9           MANAGING INVESTMENT DIRECTOR CASHION: Yes.  
10 We've been in close contact with their head of  
11 sustainability and ESG. They do have a robust ESG policy  
12 and procedures. But in some instances, even if something  
13 is on paper, it doesn't mean it gets translated to a  
14 portfolio company at that level, and if there's going to  
15 be behavior that's unacceptable.

16           But we -- you know, they've assured us at the  
17 senior level of management that they've undertaken a  
18 review of all their at-risk portfolio companies for this  
19 type of transgression. And as Anton said, they've taken  
20 it incredibly seriously and I believe are taking  
21 appropriate actions in response in this -- their 13 point  
22 plan. So, you know, we will continue to work with them or  
23 speak to them about their ESG policies, procedures. Yeah,  
24 I think it's a good example and lesson as to you can  
25 always do better, and even if something is on paper, it

1 needs to translate into actions across the board.

2 COMMITTEE MEMBER PACHECO: Thank you very much.

3 CHAIRPERSON MILLER: Okay. Director Rubalcava.

4 COMMITTEE MEMBER RUBALCAVA: Thank you, Mr.

5 Chair. Very good presentation. I think this kind of  
6 review is very helpful to the Board. And I have two  
7 questions.

8 The first one I'm changing it because it's been  
9 brought up already by some colleagues here. So I -- I'm  
10 pleased that there's an ESG framework being used. And you  
11 went into some examples and lessons learned. So I'm  
12 pleased that CalPERS is using its opportunity to bring  
13 people in. That was good. I did not know that and that's  
14 good that there's been commitments and assertions from --  
15 that they will be constructive with -- engage with labor  
16 and follow their governing rules, I guess, and laws.

17 So my question is looking at other tools, I mean,  
18 we -- Mr. Pacheco spoke about the principles and how to  
19 use that. I had another question. I saw an article that  
20 one thing that -- about CalPERS that we use these  
21 customized side letters in private equity. And I was  
22 wondering -- I was trying to look up the article, but I  
23 guess I exhausted my free article limit, so --

24 (Laughter).

25 COMMITTEE MEMBER RUBALCAVA: -- I couldn't read

1 it. But is this side letter a way that we can also  
2 reinforce the ESG framework with our private equity  
3 partners?

4 MANAGING INVESTMENT DIRECTOR ORLICH: It is. And  
5 they're a very common feature of each and every private  
6 equity investment. The terms, you know, do vary from  
7 manager to manager on a whole host of issues, ESG,  
8 non-ESG, but we're, you know, working to have the limited  
9 partnership agreements and side letters reflect the latest  
10 in ESG understanding's best practices and governance.

11 COMMITTEE MEMBER RUBALCAVA: Great. That's good  
12 to know.

13 My second question, I appreciate -- I think it  
14 was very timely that this presentation happened, because  
15 you point out that one of the -- one of the new priorities  
16 is to move -- start moving away from buyout and going to  
17 venture, because that's been better performance.

18 And you speak to it in various points and this  
19 key initiative here and there, and all that. So my  
20 question is how do you expect to build up on it? One of  
21 the articles -- I saw three articles last week on this  
22 topic. One of the articles quoted - I think it was you,  
23 quoted you saying we're trying to reach to five billion.  
24 And right now we're less than one percent. I mean, it's  
25 not even one billion. So how are we going to get to five

1 from one -- less than one to five really and what is the  
2 time frame? Thank you.

3           MANAGING INVESTMENT DIRECTOR ORLICH: The five  
4 billion is essentially to make the math straightforward,  
5 you know, roughly 10 percent of our 13 percent private  
6 equity portfolio translating to about one percent -- one  
7 percent of approximately, you know, \$450 billion is how  
8 you get to the five billion.

9           But because of the nature of drawdown structures  
10 and how one invests in private equity, you should expect  
11 to see that number over approximately five years. So the  
12 money will go into the ground after we do our extensive  
13 work on manager selection, you know, diligence,  
14 negotiations, and ultimately making a commitment with a  
15 firm.

16           Now, I do want to underscore the dynamics of  
17 venture are characterized by this concept of performance  
18 persistence. And so the firms that will do well in the  
19 future have done well in the past, those firms are known  
20 to the market. And even though venture -- and in some  
21 cases it's characterized as its own asset class, in some  
22 cases it's grouped as a section of private equity, while  
23 venture has the highest overall returns, it's got the  
24 highest return dispersion. Another way to put that is the  
25 returns of venture are concentrated on the highest

1 quartile.

2           And since those firms are known and they attain  
3 their performance by being disciplined in their fund size,  
4 they tend to be highly oversubscribed. And to a large  
5 extent, it's an exercise in access more than it is in  
6 manager selection. And that's why we need to be patient  
7 to make sure that we are only partnering with top firms.

8           COMMITTEE MEMBER RUBALCAVA: And that's speaks to  
9 something you said earlier about building those  
10 relationships. Again you said being patient, but building  
11 those relationship so they -- so when those -- there's an  
12 opening, we -- you can take advantage.

13           MANAGING INVESTMENT DIRECTOR ORLICH: That's  
14 right.

15           COMMITTEE MEMBER RUBALCAVA: Thank you very much.

16           MANAGING INVESTMENT DIRECTOR ORLICH: And just  
17 the one point I would add to that, part of that is  
18 partnering with firms that have been through multiple  
19 cycles, where, you know, ideally in most cases, we're  
20 talking about firms that have, you know, 20-year plus  
21 histories.

22           COMMITTEE MEMBER RUBALCAVA: Thank you. Thank  
23 you, Mr. Chair.

24           CHAIRPERSON MILLER: Okay.

25           CHIEF INVESTMENT OFFICER MUSICCO: The only

1 additional thing I'd add to the VC strategy is we're  
2 trying to be very thoughtful, because it is small in the  
3 overall grand scheme. And so the needle-moving aspect  
4 that I referred to earlier when we think about putting  
5 dollars to work, it has to be needle moving. In the case  
6 of venture, it's as much about aligning ourselves with  
7 these persistent top-performing partners, who also happen  
8 to be in thematics in parts of the market where they are  
9 investing in disruptive technology that we want to bring  
10 those -- that know-how in-house. And so we can really use  
11 our venture program as a -- kind of a double -- a double  
12 whammy, if you will, where we're focused and disciplined  
13 on who we're partnering with, but we can also really  
14 benefit from getting an edge on where the disruptive  
15 technologies are going and bring that knowledge and  
16 insights in-house, and apply that knowledge and insight  
17 across our other asset classes.

18           So we're being very thoughtful in how we deploy  
19 that capital within CV and it will be measured. And it  
20 will be methodical. And just to clarify it's not at the  
21 cost of our buyout program. When we talk about our  
22 buyout -- the large buyout program, that's more about  
23 rightsizing between large buyout and mid-market. We see  
24 outsized returns, for example, over the years in  
25 mid-market firms, sector-focused firms, et cetera. And so

1 it's not that we're taking a dollar from buyout and  
2 putting it into venture, so I just wanted to clarify that  
3 as well.

4 COMMITTEE MEMBER RUBALCAVA: Thank you.

5 CHAIRPERSON MILLER: Okay. Director Ortega.

6 COMMITTEE MEMBER ORTEGA: Yeah. Thank you. I  
7 have a question about performance. And so it's sort of  
8 off topic from -- this is kind of a broad question about  
9 measuring performance of the private equity portfolio. So  
10 I think for me as a Board member, a challenging thing is  
11 not knowing until, you know, we have that look-back  
12 presentation about what the loss is for that decade of  
13 loss. And so that's a thing that I find challenging about  
14 private equity is you're sort of always looking over a  
15 longer period of time about what the actual performance  
16 is.

17 And so looking at slide 9, for example, you have  
18 that 10-year period highlighted, but the 3-year period is  
19 underperforming as well. And so then maybe the answer to  
20 that is that it's still being dragged from prior  
21 commitments. But how do we better assess in more  
22 real-time that the performance is what we expect, so that  
23 we don't wait until 10 years have gone by and we've not  
24 met our targets? And I think compounding it is the --  
25 there's a custom benchmark. And so there's sort of when



1 you're looking at each year of performance, we're not  
2 necessarily sure that we know what's happening and what  
3 our long-term -- or the next 10 years might look. So just  
4 some thoughts about how we as Board members can feel  
5 informed and comfortable with the performance as we're  
6 looking at it annually.

7 Thank you.

8 MANAGING INVESTMENT DIRECTOR ORLICH: To  
9 underscore a point from the presentation, even during this  
10 period of underperformance discussed on slide 9,  
11 throughout the same periods, there was outperformance  
12 versus a public equity market. Even with a premium put on  
13 public equity performance, there was still outperformance.  
14 And so you can have confidence that it's adding value for  
15 the equity risk that we take, and that is a real positive  
16 in discussing the history of the program.

17 But you're putting emphasis on a key point, which  
18 is one of the disadvantages of the asset class is the  
19 lagged reporting and the time that it takes to generate  
20 returns. This is a long-lived asset class. The  
21 investment period is somewhere between three and five  
22 years. A fund life which is the investment period plus  
23 the harvesting period is 10 to 12 years, so it does take  
24 time in changing a portfolio. Even with a modest amount  
25 of inexperience, and growth, and innovation, it takes time

1 to translate into the portfolio and then to realize the  
2 returns.

3           So there are aspects, however, that we can look  
4 to in more real-time. And on that point, I would really  
5 underscore the co-investment component. So it -- because  
6 the returns of co-investment are a function of no  
7 management fees and no carry, we can mathematically say  
8 each five percent of commitments we make in co-investment  
9 as opposed to funds translates into 25 basis points of  
10 guaranteed alpha.

11           So roughly speaking, a co-investment relative to  
12 a fund structure has a four to six percent performance  
13 tailwind. And as we grow, the proportion of the  
14 portfolio -- and right now, we're at a run rate of 50  
15 percent of co-investments. That's a very high level, but  
16 our target is to be at least 40. We can say that roughly  
17 speaking we're reducing our costs by 40 percent and that  
18 translates directly into net return. And that's a  
19 statistic that you essentially can get in real-time. So  
20 we can, you know, come to you today and say over the last  
21 two quarters, we've done \$4 billion of co-investment and  
22 we know that that will generate essentially a reduction in  
23 the gross-to-net spread improving net returns. And we are  
24 hoping that our manager selection is on top of the  
25 reduction in the costs.

1 COMMITTEE MEMBER ORTEGA: Can I just ask a  
2 follow-up. So what you've described right there, will  
3 that be in a report that we would see then, that kind of  
4 quantifying what the value-add is over time?

5 MANAGING INVESTMENT DIRECTOR ORLICH: (Nods  
6 head). Yes.

7 COMMITTEE MEMBER ORTEGA: Okay.

8 DEPUTY CHIEF INVESTMENT OFFICER BOOTH: Yes. And  
9 I just also add that the underperformance over the last  
10 three years is partly the underweight to venture, which  
11 is -- which has performed very strongly, but that's  
12 reversed over the more recent period.

13 COMMITTEE MEMBER ORTEGA: Thank you.

14 CHAIRPERSON MILLER: Okay. Controller Cohen.

15 COMMITTEE MEMBER COHEN: Yes. Finally.

16 (Laughter).

17 COMMITTEE MEMBER COHEN: I'm going to have to get  
18 in the queue faster, like as soon as the presentations  
19 start, just jump in the queue, because --

20 VICE CHAIRPERSON TAYLOR: There you go.

21 CHAIRPERSON MILLER: I think that that's --

22 COMMITTEE MEMBER COHEN: -- oh, my God.

23 CHAIRPERSON MILLER: -- what Jose Luis does every  
24 time.

25 (Laughter).

1 COMMITTEE MEMBER COHEN: Okay. You guys are  
2 awake. You're up there. How are you?

3 Just like everyone else has said, great  
4 presentation, blah, blah, blah. Listen, I've got five  
5 questions, okay.

6 (Laughter).

7 COMMITTEE MEMBER COHEN: And it starts -- the  
8 first one starts on slide 11. And it's going to go slide  
9 11, 12, 16, 17, and 18. Okay.

10 So on slide 11, it notes that the State Street  
11 private equity benchmark is at 14 percent venture and also  
12 while CalPERS has been underweight in -- at less than 0.5  
13 percent venture. And I wanted to know what do you  
14 think -- what do you think is a prudent pathway forward?  
15 Short, slice -- concise answers. I don't want anything  
16 long, just --

17 MANAGING INVESTMENT DIRECTOR ORLICH: Actually,  
18 I'm really appreciative you're breaking up the questions.

19 COMMITTEE MEMBER COHEN: Okay.

20 MANAGING INVESTMENT DIRECTOR ORLICH: So I'll  
21 return the favor by keeping it short. The 14 percent is  
22 something that, given CalPERS size, is unrealistic.

23 COMMITTEE MEMBER COHEN: Okay.

24 MANAGING INVESTMENT DIRECTOR ORLICH: And there  
25 are -- you know, just to emphasize a couple points from a

1 prior answer. It's the first quartile of venture that's  
2 driving the return of the entire asset class. Those fund  
3 sizes are small. And given our absolute dollar amount  
4 requirements to get to 14 percent, we would essentially  
5 warp the opportunity set and not be with the best managers  
6 in the space. And that's the reason for the modest 10  
7 percent of the portfolio in venture target, which will  
8 take years to achieve.

9 COMMITTEE MEMBER COHEN: Okay. Anyone else want  
10 to opine on that answer?

11 No. Okay. Good.

12 We're moving on. Slide 12. Okay. So slide 12  
13 notes that quote rightsizing co-investments share a total  
14 commitment that would help lower costs and boost returns.  
15 I was wondering if you could give me some examples of an  
16 optimal split between the co-investment and funds. And  
17 this was again referencing slide 12.

18 MANAGING INVESTMENT DIRECTOR ORLICH: Yeah. This  
19 is a well documented area. There's an organization called  
20 CEM, which benchmarks institutional investors. I can tell  
21 you that based on a comprehensive study, they determined  
22 that the various -- the highest performing proportion of  
23 co-investment for anyone in its status set was 49 percent,  
24 and currently we are at 50 percent. That's the run rate  
25 for the last two quarters.

1 COMMITTEE MEMBER COHEN: Okay. So that's the  
2 optimal split you're...

3 MANAGING INVESTMENT DIRECTOR ORLICH: At a  
4 certain point, you can't completely eliminate. The fee  
5 and carry savings component is always there for you.  
6 There are no diminishing returns to that, but you have to  
7 have investments in funds in order to do co-investment.  
8 Co-investment is essentially a set of opportunities that  
9 the fund cannot take advantage of, so there is a minimum  
10 requirement of fund investing in order to generate the  
11 co-investment opportunities. And 50 percent is basically  
12 the natural limit where you start to essentially cut into  
13 the sourcing of the investments in the first place.

14 COMMITTEE MEMBER COHEN: Okay. We're on --  
15 you're doing good. Doing very well.

16 Next question. Oh, so CalPERS has invested with  
17 emerging managers for a long time through a fund of fund  
18 for a while. And I'm curious to know what makes the \$1  
19 billion commitment to support emerging and diverse  
20 managers that's partnering with TPG Next and Grosvenor  
21 elevate different, and this is just referencing slide 16.  
22 The \$1 billion commitment, what are we doing different?

23 CHIEF INVESTMENT OFFICER MUSICCO: I'll take that  
24 one. Manager selection is so instrumental in achieving  
25 returns and choosing a manager that's emerging has a few

1 things implied. They likely don't have a traditional  
2 track record. You have to kind of pull that together  
3 differently. They may not even have a traditional  
4 background. Maybe they've done incredible things and --  
5 within a corporate structure and now are deciding I've got  
6 this knowledge, and know-how, and access to interesting  
7 deal flow, and so I'm going to spin myself out. For us  
8 to -- for us to resource that appropriately where we can  
9 say hand on heart we do that as well, that diligencing  
10 exercise as well as we do that for buyout, middle market,  
11 et cetera, would just not be a fair statement.

12           So we're leveraging the expertise of these two  
13 groups, Grosvenor in particular who have had -- their  
14 entire organization is based on finding emerging managers.  
15 And so we're going to leverage that best in class and have  
16 that knowledge transfer. And there's a great example  
17 we're super hand in glove with them. We're learning their  
18 playbook, so that we can apply that playbook over time on  
19 our own. And a group like TPG, in addition to having the  
20 diligence capabilities also have real sector expertise.  
21 And again, we're going to lean on and better understand  
22 how to diligence certain sectors in a way that we don't  
23 have capabilities of in-house today.

24           COMMITTEE MEMBER COHEN: Okay. So TPG and  
25 Grosvenor those are -- those are the top two performing

1 firms that you admire?

2 CHIEF INVESTMENT OFFICER MUSICCO: Those are the  
3 two organizations that we assessed were the most well  
4 rounded and get -- would get us to where we want to get to  
5 within the period of time that we wanted to get to, and  
6 would be able to lean on the relationship that existed  
7 already, because we've been long-standing investment  
8 partners with them. We can ask for a lot more. We're not  
9 just showing up for the first time saying you scratch my  
10 back, I'll scratch yours. We're saying to them let's go  
11 build this together, because we're aligned in the mission  
12 we're trying to achieve. We'll benefit from you teaching  
13 us. You'll benefit from us putting this program in place.  
14 And so we thought all around many, many things go into  
15 these decisions, but all told, great balance with those  
16 two partners and we're really excited about that.

17 COMMITTEE MEMBER COHEN: These two partners that  
18 we have, do they have similar relationships with other  
19 institutions?

20 CHIEF INVESTMENT OFFICER MUSICCO: Similar to one  
21 another.

22 COMMITTEE MEMBER COHEN: So you said that there  
23 are -- they are our partners. They work -- they've done  
24 great work in the Emerging Managers Program, and we are  
25 partnering with them to help build our program, is that



1 correct?

2 CHIEF INVESTMENT OFFICER MUSICCO: Grosvenor done  
3 a great job in emerging managers. TPG has been very good  
4 at starting up new businesses --

5 COMMITTEE MEMBER COHEN: Okay.

6 CHIEF INVESTMENT OFFICER MUSICCO: -- within  
7 sectors that they have great expertise of assessing that  
8 they're backing the right entrepreneurs. So one has more  
9 of a they chase -- they choose great -- they have a nose  
10 for finding great investment within certain sectors. The  
11 other has a long-standing track record, 30 something  
12 years, of investing in emerging managers. So combined,  
13 we're getting kind of a bunch of tools in the toolkit.  
14 We're not just getting access to great emerging managers.  
15 We're also getting access to great emerging entrepreneurs  
16 within --

17 COMMITTEE MEMBER COHEN: Um-hmm.

18 CHIEF INVESTMENT OFFICER MUSICCO: -- with  
19 certain expertise. One is more of a seeding program. The  
20 other one is more of a invest alongside or in certain  
21 strategies.

22 COMMITTEE MEMBER COHEN: Thank you for that  
23 simplified explanation. And that actually -- so the next  
24 portion of the question is is do -- are there other plans,  
25 such as like ours, doing similar -- has -- that has a

1 similar strategy with --

2 CHIEF INVESTMENT OFFICER MUSICCO: This has  
3 frankly been our call to action in the marketplace to say,  
4 hey, if we can figure this out at CalPERS and mobilize our  
5 capital in a short period of time by creating this mouse  
6 trap, we all know that other organizations like ours have  
7 similar barriers. It's very resource insensitive. Like  
8 venture, checks tend to be very tiny. They don't so call  
9 move the needle, so everyone is facing these same  
10 problems, which is why the capital has not mobilized  
11 behind this important initiative. And so what we've said  
12 is we've set up the mouse trap. We invite you to join us.  
13 There are a few examples around the globe, very few, on  
14 one hand, who have created dedicated, in the hundreds of  
15 millions in most cases --

16 COMMITTEE MEMBER COHEN: Um-hmm.

17 CHIEF INVESTMENT OFFICER MUSICCO: -- programs to  
18 target investing in diversity. But we have created this  
19 platform and invited others, which is why we're hosting  
20 the Catalyst event next week, where we have those other  
21 allocators coming in the room, we have the actual emerging  
22 managers and emerging entrepreneurs coming in the room and  
23 we're going to marry the two pools together so we can try  
24 to get this flywheel going. And our hope, and we've been  
25 very public and open about this, is that others jump on

1 board with us, because the mouse trap is there.

2 COMMITTEE MEMBER COHEN: So I just want to make  
3 sure. So where we are going in this relationship is  
4 uncharted territory. There are no -- you're a yes --  
5 you're not a yes/no type of person when I ask a question.  
6 You're like yes and -- or there's a long explanation. I'm  
7 just trying to understand. So what I -- based on that  
8 answer you gave me, it sounds like no. There aren't any  
9 other plans that are out there that have this type of  
10 relationship with these two businesses to help with their  
11 investment strategy. So what we are doing is creating  
12 something -- a new model.

13 CHIEF INVESTMENT OFFICER MUSICCO: New-ish.

14 COMMITTEE MEMBER COHEN: Okay.

15 CHIEF INVESTMENT OFFICER MUSICCO: New-ish.

16 COMMITTEE MEMBER COHEN: Okay.

17 CHIEF INVESTMENT OFFICER MUSICCO: That's why  
18 it's not a yes/no answer.

19 COMMITTEE MEMBER COHEN: Okay.

20 CHIEF INVESTMENT OFFICER MUSICCO: There are  
21 other organizations who have absolutely dedicated capital  
22 to invest in much smaller magnitude, emerging managers,  
23 but no one has said this isn't just about the managers.  
24 We're also creating a mentoring program. We're also --

25 COMMITTEE MEMBER COHEN: That's the part I'm

1 asking for.

2 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. We're  
3 also creating, you know, a playbook.

4 COMMITTEE MEMBER COHEN: Yes.

5 CHIEF INVESTMENT OFFICER MUSICCO: We're  
6 literally putting together the tools, so that these  
7 emerging managers have access to best in place in a  
8 literal playbook where we'll work with them to be better  
9 at what they're doing and we couldn't do that without the  
10 help of Grosvenor and TPG, so it's unique in that regard.

11 COMMITTEE MEMBER COHEN: So perhaps I should have  
12 asked a question. Emerging manager programs have been  
13 around. We've taken --

14 CHIEF INVESTMENT OFFICER MUSICCO: For a very  
15 long time.

16 COMMITTEE MEMBER COHEN: For a very long time  
17 with marginal success.

18 CHIEF INVESTMENT OFFICER MUSICCO: At best.

19 COMMITTEE MEMBER COHEN: Okay. We are in  
20 agreement. So really my question is is what are we doing  
21 differently that's going to -- that it's going to yield  
22 some success? And what I'm hearing is is that, well,  
23 we've learned from the mistakes in the past and we've  
24 partnered with these two TPG and Grosvenor about -- who  
25 are industry experts in different respects, but yet

1 complementary areas.

2 CHIEF INVESTMENT OFFICER MUSICCO: Yes.

3 COMMITTEE MEMBER COHEN: And that kind of  
4 distinguishes our efforts from past efforts and --

5 CHIEF INVESTMENT OFFICER MUSICCO: It  
6 distinguishes our efforts from past CalPERS' efforts.

7 COMMITTEE MEMBER COHEN: Perfect.

8 CHIEF INVESTMENT OFFICER MUSICCO: And that  
9 alone, that's what we're focused on.

10 COMMITTEE MEMBER COHEN: Okay.

11 CHIEF INVESTMENT OFFICER MUSICCO: Whether others  
12 would like to join us, we'd be delighted. Other groups  
13 have different skills in house to execute on these --

14 COMMITTEE MEMBER COHEN: Um-hmm.

15 CHIEF INVESTMENT OFFICER MUSICCO: -- but face  
16 similar barriers that I referred to. So even if they have  
17 all the skill, similar to a Grosvenor, the programs  
18 haven't really taken off, because they're such a drain on  
19 resources is the excuse that we hear. And so we're trying  
20 to eliminate all these barriers by saying here's the mouse  
21 trap, come join us. We know what we -- we know what our  
22 own capabilities are. We're humble enough to say we need  
23 help, and so we've kind of set this program up and said we  
24 need it to do a bunch of other things than just invest  
25 some money. We want the playbook, we want the mentoring

1 bit. We want to bring diverse capabilities up through the  
2 whole industry, let alone just within the emerging  
3 managers that we're investing in.

4 COMMITTEE MEMBER COHEN: Thank you.

5 CHIEF INVESTMENT OFFICER MUSICCO: You're  
6 welcome.

7 COMMITTEE MEMBER COHEN: Thank you very much.

8 All right, back to slide 17. So how much  
9 progress has the ESG Data Convergence Initiative made to  
10 standardize ESG metrics? That's the first part. And the  
11 second part is has there been any wide-scale adoption by  
12 private equity funds? Again, this referencing slide 17.

13 MANAGING INVESTMENT DIRECTOR ORLICH: I would  
14 cite the statistics on the left-hand portion of the page.

15 COMMITTEE MEMBER COHEN: Um-hmm.

16 MANAGING INVESTMENT DIRECTOR ORLICH: So the 300  
17 figure is an achieved figure that combines general  
18 partners and limited partners. And then combined across  
19 those institutions, we're speaking approximately about \$26  
20 trillion in capital. And then the key metric I think I  
21 would focus on is the portfolio companies. So two --

22 COMMITTEE MEMBER COHEN: I'm sorry, what kind of  
23 companies?

24 MANAGING INVESTMENT DIRECTOR ORLICH: The  
25 portfolio companies.

1 COMMITTEE MEMBER COHEN: Um-hmm.

2 MANAGING INVESTMENT DIRECTOR ORLICH: So the  
3 companies that are essentially held in the private equity  
4 funds --

5 COMMITTEE MEMBER COHEN: Um-hmm.

6 MANAGING INVESTMENT DIRECTOR ORLICH: That's the  
7 tip of the spear as it were --

8 COMMITTEE MEMBER COHAN: Um-hmm.

9 MANAGING INVESTMENT DIRECTOR ORLICH: -- in terms  
10 of economic activity, carbon emissions, et cetera. So  
11 we're -- we've crossed the 2000 portfolio company  
12 threshold.

13 COMMITTEE MEMBER COHEN: What about, has there  
14 been any wide-scale adoption by private equity -- equity  
15 funds?

16 MANAGING INVESTMENT DIRECTOR ORLICH: Yes, so  
17 that's in that 300 figure --

18 COMMITTEE MEMBER COHEN: Got it.

19 MANAGING INVESTMENT DIRECTOR ORLICH: -- that  
20 combines general partners and limited partners, and has --

21 COMMITTEE MEMBER COHEN: All right.

22 MANAGING INVESTMENT DIRECTOR ORLICH: -- you  
23 know, a good number of private equity firms.

24 COMMITTEE MEMBER COHEN: All right, you guys have  
25 done well. Last question. This is referencing slide 18.

1 I was wondering if you could perform -- provide a short  
2 overview of the Ownership Works Program and CalPERS' role  
3 in that?

4 MANAGING INVESTMENT DIRECTOR ORLICH: So I would  
5 describe CalPERS as a limited partner driver of the  
6 program.

7 COMMITTEE MEMBER COHEN: Okay.

8 MANAGING INVESTMENT DIRECTOR ORLICH: I do think  
9 that Ownership Works is in the earlier stages, but we do  
10 serve on the council. We have a full-time member of the  
11 private equity team as a founding council member. And  
12 this is what I would describe as in the ramp phase and  
13 trying to incorporate more firms. Some of the firms that  
14 join it will already be doing something along the lines of  
15 employee ownership.

16 COMMITTEE MEMBER COHEN: Um-hmm.

17 MANAGING INVESTMENT DIRECTOR ORLICH: And this  
18 allows them to do it in a framework where they get more  
19 credit for it as it were, but there's quite a bit of new  
20 adoption --

21 COMMITTEE MEMBER COHEN: Um-hmm.

22 MANAGING INVESTMENT DIRECTOR ORLICH: -- and  
23 expansion of the principle of employee ownership. And  
24 we're, you know, at the cutting edge in achieving that.

25 COMMITTEE MEMBER COHEN: Okay. Thank you. Great



1 job. Thank you, team.

2 Back to, Mr. Chairman.

3 CHAIRPERSON MILLER: Okay. Thank you, Madam  
4 Controller.

5 Next, we have President Taylor.

6 VICE CHAIRPERSON TAYLOR: Thank you, Chair  
7 Miller. A woman after my own heart. Okay. So I'm going  
8 to get down to brass tacks. I will send you the website  
9 for Ownership Works.

10 COMMITTEE MEMBER COHEN: Thank you.

11 VICE CHAIRPERSON TAYLOR: You're welcome.

12 So two things. One, Anton, so we sort of talked  
13 around the issue about accepting the AIC into our  
14 principles. And you kind of talked like you were saying  
15 that you're looking at all kinds of different things and  
16 you have an outside vendor helping you sift through the  
17 information, so that you can come up with some sort of  
18 responsible investing principles, is that what I was  
19 hearing?

20 MANAGING INVESTMENT DIRECTOR ORLICH: So this is  
21 a project that Peter is spearheading, so I'll give it to  
22 him.

23 VICE CHAIRPERSON TAYLOR: Okay. Thank you,  
24 Peter.

25 MANAGING INVESTMENT DIRECTOR CASHION: So CalPERS

1 has already established ESG policies and procedures, so  
2 that's underway. We did look through the AIC guidelines  
3 as well, and it was an interesting or useful comparison.  
4 Many of those items were actually more relevant for  
5 general partners, because they were the ones directly  
6 investing in the companies. However, there are still  
7 requirements that we could make as a limited partner to  
8 have that general partner take on those activities.

9 VICE CHAIRPERSON TAYLOR: Why couldn't we require  
10 that -- well, yeah, I guess that's what we were saying, if  
11 we're going to get in the fund with a general partner, and  
12 I assume -- I mean, a ton of the general partners have  
13 already signed on to that, because it's their  
14 organization. So is that what you're -- so you would be  
15 checking to see if they've signed on to it.

16 MANAGING INVESTMENT DIRECTOR CASHION: Yes.  
17 Well, we're -- right. So I was just making the point that  
18 CalPERS isn't doing it directly, but via a general  
19 partner.

20 VICE CHAIRPERSON TAYLOR: So we wouldn't -- so  
21 what you're saying is, yes, we would do it, but it's via  
22 the general partner. We're not putting it in a formal RCP  
23 type thing, is that what you're saying?

24 MANAGING INVESTMENT DIRECTOR CASHION: No, not  
25 exactly. We would -- we would -- we still require a

1 general partner to do -- to follow the ESG requirements.  
2 But my point was that CalPERS does not -- doesn't have a  
3 direct line with the individual portfolio company. We're  
4 relying on the general partner to do that.

5 VICE CHAIRPERSON TAYLOR: Okay.

6 MANAGING INVESTMENT DIRECTOR CASHION: Yeah.

7 VICE CHAIRPERSON TAYLOR: So -- and then -- so  
8 then what you're say -- also saying is that the -- you  
9 have ESG requirements that you're putting together right  
10 now or you already have?

11 MANAGING INVESTMENT DIRECTOR CASHION: So we --  
12 there are existing ESG requirements. And for every  
13 investment, whether it's private equity or other asset  
14 classes, we present a questionnaire to each manager to  
15 assess where they are and --

16 VICE CHAIRPERSON TAYLOR: On the ESG  
17 requirements.

18 MANAGING INVESTMENT DIRECTOR CASHION: On ESG  
19 requirements.

20 VICE CHAIRPERSON TAYLOR: So that's even in  
21 private equity.

22 MANAGING INVESTMENT DIRECTOR CASHION: Correct,  
23 private equity and --

24 VICE CHAIRPERSON TAYLOR: So when we're getting  
25 ready to underwrite a deal, we send that questionnaire

1 out.

2 MANAGING INVESTMENT DIRECTOR CASHION: Correct.

3 VICE CHAIRPERSON TAYLOR: Okay.

4 MANAGING INVESTMENT DIRECTOR CASHION: What  
5 we're -- the consultant that I referred to was -- over the  
6 next months, we will bring them on to review our  
7 current procedures and policies to check, confirm that  
8 they're in line with best practice, if there are any gaps.  
9 And as I said, it's a very quickly evolving field. We  
10 will update those with those -- with those new features.

11 VICE CHAIRPERSON TAYLOR: Can we get a copy of  
12 those?

13 MANAGING INVESTMENT DIRECTOR CASHION: Of the --

14 VICE CHAIRPERSON TAYLOR: The ESG proceed --  
15 policies that you're following that -- with each  
16 investment.

17 MANAGING INVESTMENT DIRECTOR CASHION: Well, I  
18 mean, they're really covered in the governance and  
19 sustainability principles. And --

20 VICE CHAIRPERSON TAYLOR: So those are pretty  
21 broad. Those aren't really like prescriptive human  
22 capital, I don't think. I'd have to relook at them.

23 CHIEF INVESTMENT OFFICER MUSICCO: There's  
24 principles and then there's diligence questionnaires, kind  
25 of two separate things.

1 VICE CHAIRPERSON TAYLOR: Okay.

2 CHIEF INVESTMENT OFFICER MUSICCO: I think, in a  
3 nutshell, what Peter is saying is that CalPERS has long --  
4 had a long-standing initiative in that front, well before  
5 any -- well before I arrived. What -- where were the  
6 opportunity sits right now is because there have been so  
7 many of these frameworks that have been created on the  
8 questionnaire as well as principles. We want to gather  
9 all of that, look across all the asset classes, and make  
10 sure that we are consistently using both questionnaires  
11 and principle -- having overarching principles that are  
12 best in place.

13 There are going to be some questions on a  
14 questionnaire that are relevant for private equity,  
15 different questions perhaps for the Real Estate Program,  
16 different questions perhaps that we work through on  
17 private debt for example.

18 So we're just making sure that we're being  
19 consistent and best in class.

20 VICE CHAIRPERSON TAYLOR: So you're saying yes,  
21 but what I need to know is are there principles for  
22 private equity?

23 CHIEF INVESTMENT OFFICER MUSICCO: Absolutely.

24 VICE CHAIRPERSON TAYLOR: Because we have RCP for  
25 real estate.

1 CHIEF INVESTMENT OFFICER MUSICCO: We have  
2 been --

3 VICE CHAIRPERSON TAYLOR: We have our proxy  
4 voting --

5 CHIEF INVESTMENT OFFICER MUSICCO: We have been  
6 following principles across all asset classes. What we  
7 haven't done is necessarily had the same principles or  
8 gut-checked that we're using best-in-class principles,  
9 because if you -- I think Peter rhymed off a number of  
10 organizations. You've got UNPR. You've got principles  
11 that ILPA puts out. You've got UN PRI. You've got a  
12 whole bunch of bodies that have put out principles. We  
13 want to make sure we're being consistent, are  
14 knowledgeable of all the principles, making sure we're  
15 asking and then the detailed questions.

16 VICE CHAIRPERSON TAYLOR: Are you talking to the  
17 Board too? Are you including the Board, because we  
18 have -- we also have some thoughts on this as well.

19 CHIEF INVESTMENT OFFICER MUSICCO: Absolutely.  
20 That's why we've hired Peter to come in. We're using  
21 outside counsel to work through -- outside consultants to  
22 work through it. And it's a body of work that we're  
23 sitting down with you on at the July off-site and we'll be  
24 rolling out the whole strategy in the fall. And so  
25 between now and then, tons of opportunity for Board

1 education and feedback.

2 VICE CHAIRPERSON TAYLOR: Okay. So we will be  
3 able to see an overarching ESG principles for all -- for  
4 implementation into all portfolios, and then --

5 CHIEF INVESTMENT OFFICER MUSICCO: Into all asset  
6 classes.

7 VICE CHAIRPERSON TAYLOR: All asset classes.

8 CHIEF INVESTMENT OFFICER MUSICCO: As Peter said,  
9 we don't reach down into portfolio companies --

10 VICE CHAIRPERSON TAYLOR: I'm sorry about that.

11 CHIEF INVESTMENT OFFICER MUSICCO: -- but we can  
12 certainly speak to our GPs and say --

13 VICE CHAIRPERSON TAYLOR: That's fine.

14 CHIEF INVESTMENT OFFICER MUSICCO: -- our  
15 expectation if we invest in you.

16 VICE CHAIRPERSON TAYLOR: So when we do sign up  
17 with a new fund, then you are going to have an expectation  
18 of having some sort of questions.

19 CHIEF INVESTMENT OFFICER MUSICCO: We will go  
20 through a framework of questions and we'll make an  
21 assessment of whether or not we feel that they are  
22 following along with the principles that we deem are  
23 necessary for us to be investing partners with them.

24 VICE CHAIRPERSON TAYLOR: Okay. So -- and then  
25 my last thought is, Steven McCourt is here and Meketa has

1 informed us that they are currently using some principles  
2 in their questionnaires with private equity. If you  
3 wouldn't mind giving us an update on that.

4 MR. McCOURT: Yeah. Thank you. Steve McCourt  
5 with Meketa Investment Group. The concept of labor  
6 principles has been a hot topic in the industry in recent  
7 years. To answer your question, Ms. Taylor, Meketa  
8 Investment Group has a set of labor principles that we  
9 require all general partners to acknowledge when they are  
10 completing due diligence questionnaires and soliciting  
11 capital from the clients for which we allocate capital to.

12 VICE CHAIRPERSON TAYLOR: Okay. And how -- are  
13 you getting pushback -- any pushback or anything like  
14 that?

15 MR. McCOURT: Not really. The area that's  
16 probably most challenging is the reporting requirements.  
17 Very little pushback on expected behavior from general  
18 partners. I think most of -- most everyone looks at labor  
19 abuses in all sorts of businesses and can agree that they  
20 should not exist. The biggest challenges relate more to  
21 requirements of general partners to complete  
22 questionnaires or complete regular information requests on  
23 a wide variety of detailed information on workforces  
24 across the portfolio companies that they -- that they  
25 oversee. Because if they agree to do that, as SEC



1 regulated entities, they are then subject to regulatory  
2 risk with the SEC if they have a document that says they  
3 will do this, but they don't -- they do 99 percent of it  
4 and not a hundred percent of it. So some concern about  
5 the reporting requirements. Very little on the actual  
6 principles themselves.

7 VICE CHAIRPERSON TAYLOR: Okay. So reporting  
8 requirements, which I think Mr. Orlich had said that there  
9 was not follow-through, right? That's where we're running  
10 into issues. And I think Mark Carney said that too is  
11 there's not follow-through on these principles as we're  
12 moving forward in private equity, is that correct, Anton,  
13 that you have like questionnaires -- or you Nicole, that  
14 you guys have the questionnaires or have asked questions,  
15 but then it comes down to whether or not we can reach down  
16 and ask them later which is what Mr. McCourt is talking  
17 about.

18 MANAGING INVESTMENT DIRECTOR ORLICH: So I think  
19 our response rate from general partners in our ESG  
20 questions and our due diligence questionnaires is very  
21 high. I do think there's some self-selection there,  
22 because we are partly sourcing based on a firm's ability  
23 to execute well on ESG frameworks, but the response rate  
24 is robust.

25 And you can see it from the data convergence

1 numbers, we're also getting traction on essentially the  
2 metrics. Although I do think that that is not as advanced  
3 as the DDQ responses, and that's due diligence  
4 questionnaire.

5 VICE CHAIRPERSON TAYLOR: Okay. Okay. I get it.  
6 All right. I think I'm going to stop there.

7 Go ahead.

8 CHAIRPERSON MILLER: Okay. Next, we have  
9 Director Walker.

10 COMMITTEE MEMBER WALKER: Hi. So this is kind  
11 of -- I'm just going to ask the question. So we -- I've  
12 been hearing a lot at the meetings I've been going to  
13 about private equity going into health care. Are we  
14 working with managers that are -- or whatever the right  
15 term is. Is CalPERS involved with private equity and  
16 health care a simple question, I think?

17 CHIEF INVESTMENT OFFICER MUSICCO: Yes.

18 COMMITTEE MEMBER WALKER: We are. Okay. And so  
19 what are -- and do we have principles around how we work  
20 with them or what we expect from them -- I don't know if  
21 I'm asking this right. As we go --

22 CHIEF INVESTMENT OFFICER MUSICCO: We don't -- we  
23 don't have sector-specific principles. What Peter is  
24 working through with the help of consultants is taking a  
25 look at the broad landscape of principles that are

1 generated from multiple sources from multiple end groups.  
2 And we'll -- we're going to come back with a  
3 consolidate -- we haven't contemplated having bespoke  
4 principles by sector. Albeit, there are certain sectors  
5 that will require more consideration around certain  
6 things.

7 COMMITTEE MEMBER WALKER: Right.

8 CHIEF INVESTMENT OFFICER MUSICCO: That would be  
9 included in the broad base of questions like for  
10 diligence, which is different than overarching principles,  
11 which we're also working on. So just so that we're clear,  
12 there's principles and then there's very detailed due  
13 diligence questionnaires that help us get to the answer of  
14 whether or not we think they're being responsible  
15 investors at the end of the day.

16 COMMITTEE MEMBER WALKER: Okay. I'm looking  
17 forward to the off-site, because I think that we are  
18 intermingling terms.

19 CHIEF INVESTMENT OFFICER MUSICCO: I think so.

20 COMMITTEE MEMBER WALKER: And so we're not  
21 necess -- we're not talking the same thing back and forth.  
22 And I --

23 CHIEF INVESTMENT OFFICER MUSICCO: Yeah. And  
24 it's our pleasure --

25 COMMITTEE MEMBER WALKER: -- I think that's part

1 of what I'm hearing.

2 CHIEF INVESTMENT OFFICER MUSICCO: Yeah, I think  
3 that's -- I think that's a great part about us agreeing  
4 that we're going to do a lot more Board education, because  
5 it will -- let's all level set and get -- use the same  
6 terms and the same terminology. Let us give you comfort  
7 where we've got things in place. Let us highlight and  
8 flag for you where we have fallen short in our own, you  
9 know, observations, and how we're leveraging outside  
10 expertise to make us be best in class for 20 -- for our  
11 journey towards our 2030 strategy.

12 COMMITTEE MEMBER WALKER: Thank you.

13 CHIEF INVESTMENT OFFICER MUSICCO: You're  
14 welcome.

15 DEPUTY CHIEF INVESTMENT OFFICER BOOTH: And if I  
16 could -- if I could just add, please. So I previously set  
17 up the UK -- the largest UK public pension plan, which is  
18 one of the leading sort of asset owners and responsible  
19 owners in the UK. So having joined --

20 COMMITTEE MEMBER WALKER: Excuse me, you've got  
21 to speak a little slower for me --

22 DEPUTY CHIEF INVESTMENT OFFICER BOOTH: Sure.

23 COMMITTEE MEMBER WALKER: -- because I'm  
24 processing your accent at the same time --

25 (Laughter).

1           COMMITTEE MEMBER WALKER:  -- you're talk and  
2 you're talking really fast.

3           DEPUTY CHIEF INVESTMENT OFFICER BOOTH:  Excuse me  
4 and also probably an accent as well.

5           COMMITTEE MEMBER WALKER:  That's okay.

6           DEPUTY CHIEF INVESTMENT OFFICER BOOTH:  Okay.  So  
7 previously having set up the largest UK public pension  
8 plan, which was also a leader in the sustainability and  
9 responsible ownership, I'm going to be working very  
10 closely with Peter, and with the asset class teams, and  
11 the external consultants to see how we can upgrade our ESG  
12 framework going forward.  So CalPERS is well regarded in  
13 the market, but hopefully there are areas that we can  
14 upgrade.  And when you look at particular sectors, parts  
15 of that ESG framework will be more applicable to certain  
16 sectors than others.  So you'll focus on the sector  
17 framework -- you'll focus on the framework what's most  
18 relevant for the sector.  So I think that's to come to the  
19 Board and we can ask discuss in the July off-site --

20           COMMITTEE MEMBER WALKER:  Than you.

21           DEPUTY CHIEF INVESTMENT OFFICER BOOTH:  -- and  
22 then work with you to make sure that we've got something  
23 that we're both comfortable with.

24           COMMITTEE MEMBER WALKER:  Thank you.

25           CHAIRPERSON MILLER:  Okay.  Frank Ruffino.

1           ACTING COMMITTEE MEMBER RUFFINO: Yeah. Thank  
2 you. Thank you, Mr. Chair. I want to just follow up real  
3 quick on some of the -- on the question that President  
4 Taylor asked, because I'm a little confused. And so maybe  
5 I'm sure in July when we do the educational it will be  
6 helpful to understand. But the last Board meeting, I  
7 think we left it off that staff was going to work -- you  
8 know, a consultant was going to come up with this quote  
9 unquote principles or labor principles, right? But  
10 today -- what I'm hearing today now that we are working on  
11 drafting some principle with a new consultant as -- or  
12 some new consultant. I'm not sure. I didn't -- and then  
13 we heard from Meketa that they were working on some sort  
14 of principle as well. So I'm not sure if -- are these the  
15 same -- is this the same thing? Are there two distinct  
16 things and why are we --

17           CHIEF INVESTMENT OFFICER MUSICCO: I can't speak  
18 to what Meketa is doing, but what I can speak to, again I  
19 think there's -- we're talking over one another with --  
20 understandably so. This is not -- this is a complex  
21 issue.

22           ACTING COMMITTEE MEMBER RUFFINO: Sure.

23           CHIEF INVESTMENT OFFICER MUSICCO: We're talking  
24 about ESG principles, the "E, the "S", and the "G". We're  
25 also talking about how you operationalize ESG principles

1 using frameworks that in some cases, you know, have  
2 considerations for different sectors and different asset  
3 classes. In order to do both of those well, we're  
4 engaging an outside firm to help us look through what have  
5 we already got, what's best in class around the market for  
6 asset owners and managers, and how can we pull all this  
7 together, so that we stick a pin in what our overarching  
8 principles are, for "E", and "S", and "G", and how we then  
9 implement framework for diligencing our investment  
10 partners to make sure that they are doing their end of the  
11 system, if you will, to make sure we're all investing  
12 responsibly, sustainable investing, responsible investing,  
13 sustainability. Lots of terms all kind of leading to the  
14 same thing. I think where there's some confusion in your  
15 question is you're very -- you're speaking specific to  
16 labor principles.

17 ACTING COMMITTEE MEMBER RUFFINO: Correct.

18 CHIEF INVESTMENT OFFICER MUSICCO: We've brought  
19 it up one level and said we're looking at ESG principles  
20 across the board. There are certain pieces of labor  
21 principles that we've been able to execute on and in our  
22 real estate program where it is captive to us. We are the  
23 only investors. We can say to our partners, you shall not  
24 receive capital unless you do X. There's a different  
25 issue at hand for us making it next to impossible for us

1 to replicate that, for example, that specific part of  
2 labor principles. There's lots of labor principles, but  
3 that specific one. There are some limitations in our  
4 ability to ever dream of doing that within the Private  
5 Equity Program, because we're not the sole investors.  
6 There's many, many, many, many, many LPs in there and we  
7 don't have direct ownership in the way that we do in some  
8 cases on real estate.

9           So that -- I think at our offsite in July, we're  
10 going to be able to treat it like a lab where we just get  
11 in the weeds together and kind of walk through all of this  
12 with everyone and get on the same page.

13           ACTING COMMITTEE MEMBER RUFFINO: Correct. So  
14 your last comment, it's -- thank you. That clarifies it a  
15 little bit. So labor principle is sort of like a subset  
16 of these. But your last comment said it, because it's so  
17 complex, right --

18           CHIEF INVESTMENT OFFICER MUSICCO: Yes.

19           ACTING COMMITTEE MEMBER RUFFINO: -- that we  
20 don't have it. But I thought our whole objective was to  
21 find a way to come up with some sort of labor principle  
22 for private equity, because we were missing those. And I  
23 understand, and I appreciate the complexity in what you  
24 just said, you know, that it -- we can't just adopt the  
25 ones for real estate. We -- but I thought that was the



1 task -- if I'm not mistaken, that was the task that we  
2 addressed I think at the last Board meeting, and that's  
3 what we asked staff.

4 So now, the thing -- so the only thing now that's  
5 new is that we are engaging and outside consultant -- a  
6 new consultant, right? They're not consulting them right  
7 now.

8 CHIEF INVESTMENT OFFICER MUSICCO: Again, not to  
9 complicate things, I think we've always committed that we  
10 are going to be best in class with -- and make sure that  
11 we are clear and get your buy-in on our "E", and "S", and  
12 "G" principles. We hear and we acknowledge that within  
13 the "S" of the ESG, there's an absolute expectation of the  
14 Board that the "S" part, which specifically points to  
15 labor principles is included in our work. Our work can't  
16 just be on labor principles, because there's many other  
17 parts to the "S" like there is to the "E" and "G", so  
18 we're working to make sure that you get an  
19 all-encompassing program at the end of the day that will  
20 be very clear on our principles across ES&G, of which  
21 includes labor principles, but we'll also share with you  
22 to hold us accountable, that we're asking the right  
23 questions in diligence. We refer to those as our ESG  
24 frameworks. Those are the things we sit down with our  
25 potential invest -- investment partners and say are you

1 doing XYZ? Help us understand where the risks are. Help  
2 us understand where the opportunities are.

3 We've always looked at this as a full package.  
4 We hear the Board loud and clear though that there's an  
5 acute interest in the "S" part that relates to labor  
6 principles and we're working on that too.

7 ACTING COMMITTEE MEMBER RUFFINO: Okay. Great.  
8 Thank you.

9 CHIEF INVESTMENT OFFICER MUSICCO: You're  
10 welcome.

11 ACTING COMMITTEE MEMBER RUFFINO: I just want to  
12 renew the comment that I made last time, that the  
13 Treasurer is very interested in reviewing, and supporting,  
14 and contributing to those principles, because she's got  
15 some strong feelings and they know what are -- what they  
16 should be for a number of reasons.

17 CHIEF INVESTMENT OFFICER MUSICCO: Understood.  
18 Thank you.

19 ACTING COMMITTEE MEMBER RUFFINO: Thank you, Mr.  
20 Chair.

21 CHAIRPERSON MILLER: Okay. Back to President  
22 Taylor.

23 VICE CHAIRPERSON TAYLOR: Sure. Last thing. So  
24 we're -- I'm clarifying one more time. We have an outside  
25 consultant that you guys are working with to bring all of

1 this together, so that we're not overlapping work. I get  
2 that part and I appreciate that. So I just -- and then I  
3 think I asked are we making sure to bring it to the Board  
4 and you said July. Have you talked to -- have you got the  
5 labor principles, right, which we got from a labor group?  
6 Have you talked to Meketa of what theirs are and then have  
7 you also looked at -- because the AIC principles are an  
8 overarching ESG principles. So I just want to make sure  
9 all of these things are sort of taken into account that  
10 get brought back into light.

11 CHIEF INVESTMENT OFFICER MUSICCO: I can assure  
12 you we are doing an extremely thorough look and deep dive,  
13 including talking to folks like Meketa, and any and other  
14 of the groups. We've asked -- we are working with an  
15 outside party, an outside consultant to precisely make  
16 sure we turn every rock, to make sure we bring back a  
17 fulsome, well researched, well documented proposal for our  
18 "E", and "S", and "G" principles. We're aware of work now  
19 that Meketa is doing. We'll ensure to circle back with  
20 Meketa. We'll be circling back and making sure that we've  
21 taken into consideration all the great work that other  
22 groups have done and come forward with principles that we  
23 think are appropriate for what we're trying to accomplish.

24 VICE CHAIRPERSON TAYLOR: All right. I  
25 appreciate it, Nicole and I do not mean to bash this

1 subject over your head. It also kind of goes for real  
2 assets, because I think we asked for an update on that.  
3 And I know we're going to address that later. I just  
4 wanted to throw that out there and then I don't have to  
5 say anything later. Okay.

6 CHAIRPERSON MILLER: Okay. Well, I think  
7 everybody has asked all these questions that I was  
8 prepared to, you know, to go into, so I won't belabor any  
9 of it or ask any more at this time. I will say I'm really  
10 excited about, you know, the coming weeks and to hear  
11 all -- more about all this in July. Glad I come to these  
12 meetings. I learn so much.

13 So good luck to the team and all your diligent  
14 work. And to the consultant who's working on this, I'm  
15 sure that there will be plenty of folks for them to talk  
16 to between now and then. And, you know -- and for me, I  
17 think Nicole's point about us all getting kind of on the  
18 same page, even just in terms of the intent, and the  
19 lexicon, and other -- you know, I looked at a lot of these  
20 documents and there's principles, there's guidelines,  
21 there's overarching ideas, there's -- you know, the AIC  
22 has guidelines, and so-and-so has principles, and these  
23 overarching things. And they're all over the place. And  
24 I think bringing it down to what are we really talking  
25 about, what are the -- these principles that motivate us

1 to find something to put in questionnaires to give people  
2 an idea of what we're looking at when we assess them  
3 versus what are we actually going to say we're going to  
4 hold you accountable to this in terms of, you know,  
5 proactive behaviors, actions, commitments that will or  
6 will not determine whether we engage in or continue in a  
7 relationship with you.

8 I think that needs to all be, you know, really  
9 clear when the dust settles to the point where I would be  
10 really happy if we, as leaders, you know, when we conclude  
11 this can say here's the shiny object. Let's take it to  
12 ILPA. Let's show them. Let's hold it up for the world  
13 and say, hey, here's another place where maybe, you know,  
14 what we've done will help the rest of our, you know,  
15 worldwide community who has an interest in some of the  
16 things that we value as well in this year.

17 So thanks, everybody. Thank you all, my  
18 colleagues here, for your engaging questions and  
19 everything and we just really look forward to hearing back  
20 in July.

21 So moving right along. Any more questions?  
22 Anybody else to speak?

23 I have some public comment on this item. And I  
24 have some folks in the room. And I think we may have some  
25 on the phone. So without further ado, I'll call for

1 Valencia[SIC] Alvarez. And I believe we'll have a  
2 translator, so you'll have six minutes. And the clock  
3 will start whenever you introduce yourself and begin to  
4 speak.

5 VALERIA ALVAREZ (through interpreter): Good  
6 afternoon. My name is Valeria Alvarez. I came a long way  
7 today to tell you what it's like to work for an  
8 Apollo-owned company, because I think it is important who  
9 invests your money. At Cardenas market, I sought for  
10 sexual harassment in two stores. In the first store, I  
11 was harassed by my co-worker and a manager in a different  
12 department, and I reported it to the store manager and to  
13 human resources.

14 When nothing was done to change it, I quit  
15 because it made me uncomfortable to go to work. When I  
16 left, I told the store manager that she made me feel like  
17 the harassment was my fault. Then I got hired in another  
18 Cardenas store in Fontana. I thought working there would  
19 be better, but the store manager there started sexually  
20 harassing me. He asked me to be his girlfriend, to go  
21 away with him to Las Vegas, and he started touching me.

22 I filed a complaint with Cardenas at the end of  
23 December 2022 and so did another woman who works there.  
24 Cardenas replaced the store manager with a new manager,  
25 the woman who run the store I quit from. She began

1 retaliating against me, including touching me  
2 inappropriately. In March 2023, I filed a complaint with  
3 the California Civil Rights Department alleging sexual  
4 harassment and retaliation against me for reporting sexual  
5 harassment to Cardenas.

6 In April, I was terminated. I shouldn't have to  
7 feel like that at work. I shouldn't be fired for  
8 reporting sexual harassment. Cardenas Market treated me  
9 with disrespect and Apollo is responsible for Cardenas  
10 markets. I ask you to hold Apollo responsible.

11 CHAIRPERSON MILLER: Thank you.

12 Next, we have Jared Gaby-Beigel.

13 JARED GABY-BEIGEL: Good afternoon, Chair and  
14 Board members. My name is Jared Gaby-Beigel and I work  
15 for the Food -- United Food and Commercial Workers  
16 International Union. I'm here to speak about Cardenas  
17 markets, a California grocery chain owned by Apollo Fund  
18 IX fund, a fund that CalPERS has committed \$550 million  
19 towards. As an investor in Apollo Fund IX, and as Apollo  
20 seeks your commitment to its new fund X, we urge you to  
21 step up your review of Cardenas's labor record, which we  
22 believe raises fiduciary concerns, sustainability issues,  
23 and the prospect of a growing labor dispute.

24 As we have said before, we commend CalPERS  
25 inclusion of fair labor practices in your Investment

1 Beliefs and governance and sustainability principles of  
2 human capital management. Your policies state that  
3 invested companies should adopt maximum progressive  
4 practices that emphasize and focus on preventing  
5 discrimination, harassment of any kind, and respect our  
6 employees' voluntary freedom of association.

7 Your review this afternoon of the private equity  
8 program highlights your leadership role in ESG investing  
9 and recommends you continue to prioritize ESG initiatives.  
10 Consistent with that recommendation, we ask you to hold  
11 Apollo accountable to your investment policies in a home  
12 state portfolio company, Cardenas Markets.

13 Since we were last here in January, labor issue  
14 at Cardenas have worsened. In March 2023, two women who  
15 worked for Cardenas filed complaints again the company  
16 with the California Civil Rights Department alleging  
17 sexual harassment and retaliation for reporting sexual  
18 harassment To Cardenas. You just heard from one of them,  
19 Valeria Alvarez who was fired in April after filing that  
20 complaint.

21 You'll recall that another employee, Rosalvo  
22 Martinez told you in January that a store manager asked  
23 her to take a drug test and a pregnancy test when she was  
24 ill at work, and she was subsequently terminated.

25 Earlier this month, Apollo's co-head of Impact



1 Investing, Joanna Reiss, who is Apollo's ESG executive  
2 told another limited partner in Fund IX that these two  
3 stories are simply not true. Ms. Reiss said the two women  
4 who've spoken to you are not telling the truth just  
5 minutes before Apollo competed for more than \$300 million  
6 in a new commitment from that public pension fund, again  
7 not true.

8           If Apollo was doing it's job for you, it would  
9 ensure that all its workers in your portfolio companies  
10 had a strong voice to change unacceptable conditions at  
11 work, and Apollo would believe them and do all the work  
12 necessary to uphold your investment principles. As your  
13 staff elaborated this afternoon, ESG investing is  
14 predicated on credible data for you to assess the impact  
15 of your investments. There's risk of -- there's risk in  
16 getting all of your information from investment managers  
17 who seek your dollars.

18           Apollo owes you action -- owes you action to  
19 bring Cardenas in line with your investment policies  
20 before CalPERS commits additional funds to Apollo's  
21 management. Apollo should see that Cardenas rehire Ms.  
22 Martinez and Ms. Alvarez and stop any retaliation against  
23 workers who speak up.

24           I'll also say that I have written verbatim the  
25 testimony that Joanna Reiss gave to the Teachers'

1 Retirement System of Louisiana earlier this month and I'd  
2 be happy to share copies with any members of the Board or  
3 staff who are interested.

4 Thank you.

5 CHAIRPERSON MILLER: Thank you.

6 I don't believe we have any more public  
7 commenters in the room, but we do have, I believe, someone  
8 on the phone. Mr. Teykaerts.

9 STAKEHOLDER RELATIONS ASSISTANT DIVISION CHIEF

10 TEYKAERTS: Yes, Chair Miller, we do have one public  
11 commenter on -- Valentina, go ahead.

12 VALENTINA DAVOS: Thanks a lot. Good afternoon.  
13 My name is Valentina Davos with the Private Equity  
14 Stakeholder Project. I'll be updating the Board on  
15 Blackstone-owned Slaughter House Cleaning Company Packers  
16 Sanitation. I was glad to hear the concerns discussed by  
17 the Board earlier in the meeting. As you'd like to know,  
18 CalPERS has invested more than \$4 billion with Blackstone  
19 private equity funds.

20 In November 2022, the U.S. Department of Labor  
21 sought an injunction against Blackstone on Packers to stop  
22 the company from illegally employing dozens of children in  
23 hazardous occupations (inaudible) in conditions of  
24 oppressive child labor. Packers settled the charges and  
25 paid a one and a half million dollar fine in February.

1           The deal noted that these findings represent a  
2 systemic failure across Packers entire organization to  
3 ensure that children were not working in violation of the  
4 law. These children were cleaning meat processing  
5 equipment, including back saws, brisket saws, and head  
6 splitters. Investigators learned at least three minors  
7 suffered injuries, including caustic chemical burns while  
8 working for Packers.

9           The Department of Labor ultimately found that  
10 Packers Sanitation employed at least 102 children in  
11 hazardous occupations, and had them working overnight  
12 shifts at 13 slaughterhouses in eight states.

13           Blackstone has owned Packers Sanitation since  
14 2018. Several Blackstone executives serve or recently  
15 served on the Packers Sanitation board. This oversight  
16 from Blackstone has been costly. In addition to the one  
17 and a half million dollars in fines that Packers  
18 Sanitation paid, Bloomberg reported in March that the  
19 company's valuation had been marked down meaningfully  
20 since last fall. In April, after some Packers customers  
21 announced they were cutting ties with the cleaning  
22 company, the price of Packers debt tumbled to 51.6 cents  
23 on the dollar, a level that typically indicates a company  
24 is contending with deep distress.

25           Blackstone has continued to face scrutiny from

1 some of its largest investors including New York State  
2 Comptroller's Tom DiNapoli, trustee of the \$240 billion  
3 New York State Common Retirement Fund and North Carolina  
4 State Treasurer Dale Folwell.

5 CalPERS should halt new investments with  
6 Blackstone until the firm adopts and implements a  
7 comprehensive policy to address labor compliance and human  
8 capital risk across the portfolio. The comments you're  
9 hearing today underscore labor risks in CalPERS private  
10 equity portfolio. We urge CalPERS to take further steps  
11 to ensure its external managers are accountable for their  
12 impacts on their communities and workers.

13 Thank you.

14 CHAIRPERSON MILLER: Thank you. I don't believe  
15 there are any more public comments. I have a few  
16 questions, comments from the Board starting with  
17 Controller Cohen.

18 Oh, Madam Controller, you have the floor.

19 COMMITTEE MEMBER COHEN: I shouldn't. I know I  
20 said I wanted to get in the queue earlier, but --

21 CHAIRPERSON MILLER: You beat Jose Luis this time  
22 around.

23 COMMITTEE MEMBER COHEN: It's so early that I  
24 don't even have a question formulated just yet.

25 CHAIRPERSON MILLER: Okay. Jose Luis. Go ahead,

1 Director Pacheco.

2 COMMITTEE MEMBER PACHECO: Thank you. Thank you,  
3 Chair Miller. You know, this comment from this woman  
4 and -- Latina woman speaking about this issue in this  
5 marketplace, it's really sad to hear this happening at  
6 this -- at this portfolio company owned by -- through the  
7 fund owned by Apollo. And, you know, these kind of  
8 practices shouldn't be happening, especially at these --  
9 at these companies. And, you know, I think we -- you  
10 know, we need to be very clear that to our buyout firms  
11 that we -- that we have about 73 percent in our portfolio  
12 that this is not acceptable. This is not acceptable.

13 And I -- I don't know what else I can say as a  
14 Board member. I mean I'm just one of 13, but it's  
15 disheartening to hear this. So it's uncomfortable for me  
16 to say it, but it has to be said. So that's what I wanted  
17 to mention.

18 Thank you.

19 CHAIRPERSON MILLER: Okay. Thank you.

20 I have no more requests to speak on this item.  
21 So I thank you all, thank the team, and we'll move on to  
22 our next item, which is 6e, the real assets annual program  
23 review.

24 (Thereupon a slide presentation).

25 CHIEF INVESTMENT OFFICER MUSICCO: Great. Thank

1 you. I'd ask Sarah Corr to join us up here. She'll walk  
2 us through the real assets annual program.

3 --o0o--

4 MANAGING INVESTMENT DIRECTOR CORR: Good  
5 afternoon. Sarah Corr, CalPERS Investment Office. Upon  
6 reflection of the fiscal year 22-23, it was a year of  
7 challenge by economic uncertainty. There are numerous  
8 contributing factors, including recessionary fears, high  
9 inflation, interest rate spikes, stress on the banking  
10 system, and capital market dislocation. These factors  
11 have contributed to eroding fundamentals in certain  
12 segments of the real assets portfolio, while driving costs  
13 of capital adjustments put pressure on asset valuations.

14 We are mindful of the underlying risks and are  
15 fully engaged with our managers to help maintain strong  
16 fundamentals to preserve the portfolio and asset values.  
17 The annual review before you highlights our program  
18 overview, portfolio positioning, accomplishments, and  
19 ongoing initiatives.

20 --o0o--

21 MANAGING INVESTMENT DIRECTOR CORR: The role of  
22 real assets, specifically providing predictable cash  
23 yield, drives us to a focus on core assets that offer  
24 resiliency through cycles. We are currently in the part  
25 of a cycle when our core focus and conservative capital

1 structure should offer some protection in an environment  
2 filled with downside risks.

3           The real estate portfolio is concentrated in well  
4 located assets with defensive characteristics, while  
5 infrastructure portfolio is comprised of essential  
6 assets with predictable revenue models.

7           The portfolio is fairly concentrated with 27  
8 partners, 17 of which are considered strategic.  
9 Consistent with the strategic plan, the team continues to  
10 focus on deploying capital at scale, while maintaining  
11 high underwriting standards to maintain -- to maintain the  
12 strategic asset allocation target.

13           The Board-adopted Investment Beliefs influence  
14 our approach to investing. We commit capital to partners  
15 in cost effective accounts with a long-term hold mandate.

16                           --o0o--

17           MANAGING INVESTMENT DIRECTOR CORR: Within the  
18 infrastructure portfolio, we have been building strategic  
19 relationships with highly reputable, market-leading  
20 managers and leveraging our built to co-invest to be more  
21 cost effective. Staff has effectively repositioned the  
22 real estate portfolio and it is now in a place where we  
23 can look to move up the risk curve and selectively  
24 increase exposure to value-add investments. Within the  
25 infrastructure portfolio, we look to invest capital in

1 energy transition and sustainably certified assets to  
2 align with CalPERS net zero plan. Consistent with  
3 Investment Beliefs that cost matters, the real assets team  
4 is looking to -- at our current fee structures to make  
5 sure they are aligned with the scale of our separate  
6 accounts.

7 --o0o--

8 MANAGING INVESTMENT DIRECTOR CORR: Increased  
9 interest rates have had an impact on valuations within the  
10 real assets portfolio. This is especially true for the  
11 office sector where there's widening differences in demand  
12 for Class A relative to Class B office. Increased debt  
13 costs coupled with economic uncertainty is also  
14 contributing to a material reduction in transaction  
15 volumes.

16 Marketwide, there's \$1.4 trillion of commercial  
17 real estate debt that is maturing in the next two years.  
18 It is likely that not all of this will get refinanced and  
19 some investors will end up defaulting on loans and giving  
20 the keys back to the bank. This is particularly acute in  
21 the office sector with continued uncertainty around the  
22 potential structural changes in office demand impacting  
23 the ability to refinance the debt.

24 Higher inflation has benefited the infrastructure  
25 portfolio, as the companies have been able to pass on



1 increased costs to their clients. Investor interest in  
2 private markets and increased competition for assets has  
3 led to excess -- to excess of \$600 billion of unfunded  
4 commitments in real estate and infrastructure.

5 Economic and geopolitical uncertainty is causing  
6 investors to be more cautious in their underwriting.  
7 Investors are altering their portfolio construction and  
8 targeting essential assets, such as renewables, and  
9 long-term contracted assets in the infrastructure.

10 --o0o--

11 MANAGING INVESTMENT DIRECTOR CORR: Throughout,  
12 this portfolio is currently 80 percent real estate and 20  
13 percent infrastructure. The current strategic plan --  
14 plan's increased focus on infrastructure will result in  
15 its weight increasing over time. Although the real assets  
16 portfolio has sought -- shown strong absolute returns, it  
17 continues to underperform the real assets policy  
18 benchmark. There is currently just under \$14 billion of  
19 committed capital available for our partners to invest  
20 over time.

21 --o0o--

22 MANAGING INVESTMENT DIRECTOR CORR: The portfolio  
23 is currently 90 percent core and this portion of the  
24 portfolio has met or exceeded the benchmark in the 5- and  
25 10-year time periods. The value-add and opportunistic

1 segments have underperformed in all time periods.  
2 However, most of this exposure is to legacy assets, which  
3 are dispositioned -- dispositioned candidates. This  
4 foundation in core allows us to evaluate new value-add an  
5 opportunistic strategies.

6 --o0o--

7 MANAGING INVESTMENT DIRECTOR CORR: The real  
8 assets portfolio is now \$70 billion of net asset value and  
9 has grown by approximately \$12 billion dollars over the  
10 last year. The larger drivers of this growth were the  
11 acquisition of a portfolio of retail assets on the west  
12 coast in an infrastructure asset in the United Kingdom.

13 --o0o--

14 MANAGING INVESTMENT DIRECTOR CORR: The portfolio  
15 has a modest amount of leverage and has ample cash flows  
16 to service the interest payments.

17 --o0o--

18 MANAGING INVESTMENT DIRECTOR CORR: We'll now  
19 move to focus on the real estate portfolio.

20 --o0o--

21 MANAGING INVESTMENT DIRECTOR CORR: The portfolio  
22 is well diversified by sector. While the performance has  
23 been strong on an absolute basis and exceeded the assumed  
24 rate of return in the strategic asset allocation, it has  
25 underperformed the policy benchmark.

1           However, when you look closer, the core  
2 portfolio, which makes up approximately 90 percent of the  
3 real estate portfolio, has performed well. The 10-year  
4 return has outperformed the benchmark by over 230 basis  
5 points.

6                           --o0o--

7           MANAGING INVESTMENT DIRECTOR CORR: The real  
8 estate portfolio has grown to be just over \$59 billion in  
9 net asset value.

10                           --o0o--

11           MANAGING INVESTMENT DIRECTOR CORR: The portfolio  
12 is currently overweight retail and slightly underweight  
13 all of the sectors relative to the benchmark. Just a  
14 third of the real estate assets by value are located in  
15 California and six percent is international.

16                           --o0o--

17           MANAGING INVESTMENT DIRECTOR CORR: The next part  
18 of this presentation will cover the infrastructure  
19 portfolio.

20                           --o0o--

21           MANAGING INVESTMENT DIRECTOR CORR: The  
22 infrastructure portfolio is 85 percent core and has  
23 outperformed the benchmark in the 1-, 5-, and 10-year  
24 periods. As we commit to more commingled funds, the  
25 unfunded commitments currently sitting at just under \$5

1 billion should be expected to grow.

2 --o0o--

3 MANAGING INVESTMENT DIRECTOR CORR: The focus on  
4 growing the infrastructure portfolio is playing out. The  
5 portfolio has grown from approximately \$5 billion in net  
6 asset value in 2019 to \$12 billion in 2022.

7 --o0o--

8 MANAGING INVESTMENT DIRECTOR CORR: These asset  
9 are largely located in the United States and  
10 transportation represents the largest sector. As we  
11 continue to invest in the asset class, you should expect  
12 that there will be -- that there is more exposure outside  
13 the United States as the portfolio grows.

14 --o0o--

15 MANAGING INVESTMENT DIRECTOR CORR: The portfolio  
16 is comprised of high quality essential assets with modest  
17 leverage. This should serve to protect the well -- this  
18 should serve the program well providing greater stability  
19 and resilience in the near term, as downside risks prevail  
20 under current market conditions.

21 As mentioned earlier, we will look to continue to  
22 grow the infrastructure portfolio by expanding our  
23 infrastructure relationships, including strategic  
24 co-investment opportunities. We will continue to evaluate  
25 resources, including our technology needs. A big

1 initiative for the program for this year will be to  
2 part -- to partner with sustainable investments to fully  
3 integrate SI into our decision-making and monitoring  
4 activities. With that, I'll closeout with a couple topics  
5 on sustainable investments.

6 --o0o--

7 MANAGING INVESTMENT DIRECTOR CORR: There is  
8 continued broad participation from our managers in  
9 benchmarking sustainable practices through GRESB. As you  
10 may recall, I've given a more in-depth presentation on  
11 this at the March Committee meeting. We continue to  
12 evaluate emerging tools to better assess physical and  
13 transition risks associated with climate change across the  
14 portfolio. Where possible, we have incorporated ESG  
15 requirements into separate account contracts, which  
16 promote alignment of external managers.

17 --o0o--

18 MANAGING INVESTMENT DIRECTOR CORR: As it relates  
19 to the Responsible Contractor Policy, as discussed in  
20 previous meetings, we will work with sustainable  
21 investments and other stakeholders to review the policy in  
22 the upcoming fiscal year. Any proposed changes would come  
23 back to this Committee for your review and approval.

24 --o0o--

25 MANAGING INVESTMENT DIRECTOR CORR: Finally, as

1 part of working with Peter and the sustainable investments  
2 team to further integrate SI into our processes, we will  
3 look to update the real assets strategic -- SI practices  
4 guidelines.

5 That concludes my prepared remarks and I'd be  
6 happy to take questions.

7 CHAIRPERSON MILLER: I'm not seeing any  
8 questions. I have no questions either, and thank you for  
9 the report, and appreciate all the encouraging work. And  
10 thanks to the whole team.

11 And oh, here we go. Okay. I do. It just must  
12 have been a delay in my screen here. The speed of light  
13 is a little bit slower at my station sometimes.

14 So, let's see, Controller Cohen.

15 COMMITTEE MEMBER COHEN: Oh, good. Thank you  
16 first. Okay. I'm from San Francisco and born and raised  
17 there. The city has got a lot of challenges, but I do  
18 want to talk a little bit about the re -- the real estate  
19 market. And the San Francisco real estate market has been  
20 in the news lately with the owners of Hotel Union Square,  
21 Park 55 Hotel, as well as the Westfield Mall saying that  
22 they're turning the properties back to their lenders.  
23 Needless to say, it's disrupted the local economy.

24 Office buildings continue to be sparsely occupied  
25 as well. I was just wondering if you are seeing this

1 happen in other metropolitan areas that CalPERS is  
2 invested in.

3           MANAGING INVESTMENT DIRECTOR CORR: It's -- we're  
4 starting to see in many of the larger cities. LA and New  
5 York specifically come to mind in areas that are  
6 experiencing similar things that we do invest in -- in  
7 cities that we do invest in.

8           COMMITTEE MEMBER COHEN: So how do you see the  
9 trend in office and mall investments playing out over the  
10 next five years?

11           MANAGING INVESTMENT DIRECTOR CORR: Yeah. I  
12 would -- those are topics that I plan to cover in the  
13 closed session when we cover the go-forward strategy.

14           COMMITTEE MEMBER COHEN: Okay. And then I guess  
15 my final question is is how does CalPERS compare with  
16 other institutional investors in this particular asset  
17 class?

18           MANAGING INVESTMENT DIRECTOR CORR: I would say  
19 that CalPERS has a different approach to most other  
20 institutional investors in the asset class.

21           COMMITTEE MEMBER COHEN: Different in what way?

22           MANAGING INVESTMENT DIRECTOR CORR: In the real  
23 estate specifically, we invest in separate accounts where  
24 the managers are captive to CalPERFS for the strategy that  
25 they're investment on our behalf on. We do not invest --

1 for the most part, we do not invest in commingled funds  
2 within the real estate portfolio, and that is what  
3 differentiates us from most other institutional investors.

4 COMMITTEE MEMBER COHEN: Thank you.

5 Mr. Chair, back to you.

6 CHAIRPERSON MILLER: Okay. Thank you, Madam  
7 Controller.

8 Next, we have Director Willette.

9 COMMITTEE MEMBER WILLETTE: Oh, thank you so  
10 much. Hi. Good afternoon. I really appreciate the  
11 presentation and my colleagues for the questions. I just  
12 had a question. I know in November we had -- I recognize  
13 the Responsible Contractor Policy highlight year in the  
14 presentation. In November we had a presentation on it,  
15 but at that time, I believe we'd asked for an update to  
16 that RCP Policy. It's been over eight years, since we had  
17 updated it and I would like to know if staff has a  
18 timeline, a specific calendar timeline that we could  
19 expect to get our RCP Policy updated.

20 MANAGING INVESTMENT DIRECTOR CORR: Yeah. We  
21 committed to reviewing it over the next fiscal year with  
22 sustainable investments as well as stakeholders. And any  
23 changes that we would propose to that would come back to  
24 this Committee for review. So it will be in the next  
25 fiscal year.



1 COMMITTEE MEMBER WILLETTE: So from now until a  
2 year from now, we'll get an update? Any time between now  
3 and --

4 MANAGING INVESTMENT DIRECTOR CORR: It could come  
5 back before that, but we committed to doing it in the next  
6 fiscal year.

7 COMMITTEE MEMBER WILLETTE: Okay. So we'll look  
8 forward to that by June of 2024?

9 MANAGING INVESTMENT DIRECTOR CORR: (Nods head).

10 COMMITTEE MEMBER WILLETTE: Okay.

11 CHAIRPERSON MILLER: Okay. Is that it?

12 COMMITTEE MEMBER WILLETTE: Yeah.

13 CHAIRPERSON MILLER: Okay. Director Middleton.

14 COMMITTEE MEMBER MIDDLETON: Thank you.

15 And this may be more appropriate in closed  
16 session, but as you look at the changing housing market,  
17 is there any increased opportunities for us in residential  
18 housing?

19 MANAGING INVESTMENT DIRECTOR CORR: I'll defer to  
20 closed session where I'll be covering our housing strategy  
21 as well.

22 COMMITTEE MEMBER MIDDLETON: Okay. Thank you.

23 CHAIRPERSON MILLER: Okay. President Taylor.

24 VICE CHAIRPERSON TAYLOR: So, yeah, I was like,  
25 ooh, that's a question.

1 (Laughter).

2 VICE CHAIRPERSON TAYLOR: So I just wanted to  
3 make sure one of the things that you mentioned in the ESG  
4 part was the GRESB workforce practice. So I just want to  
5 make sure that we're using those for -- and I think GRESB  
6 isn't doing really data collection. I don't know if we're  
7 getting that from them or not, but you may want to look  
8 into that for the workforce issues, as well as the rest of  
9 the sustainability for our buildings and stuff.

10 And then I just wanted to say, I swear, Sarah,  
11 the last time you told us that you would come back to us  
12 on the refresh on the RCP, you said summertime. And it is  
13 summertime.

14 MANAGING INVESTMENT DIRECTOR CORR: I believe --  
15 I believe --

16 VICE CHAIRPERSON TAYLOR: In fact, today is the  
17 first day of summer.

18 (Laughter).

19 MANAGING INVESTMENT DIRECTOR CORR: I believe I  
20 did say in the next fiscal year, but we will try to put it  
21 in the first part of the fiscal year.

22 VICE CHAIRPERSON TAYLOR: I appreciate it. Thank  
23 you very much.

24 CHAIRPERSON MILLER: Okay. I'm not seeing  
25 anymore requests to speak on this item. And so it looks

1 like we've been at it for about two hours now, so I think  
2 if we could take a five minute break and then we'll finish  
3 up --

4 VICE CHAIRPERSON TAYLOR: Let's take a 10-minute  
5 break.

6 CHAIRPERSON MILLER: Ten minute. Okay. Ten  
7 minute break. Ten minute break. Yeah. I'm told I'm --  
8 so we'll be back at 3:41 or thereabouts.

9 (Off record: 3:32 p.m.)

10 (Thereupon a recess was taken.)

11 (On record: 3:44 p.m.)

12 CHAIRPERSON MILLER: Okay. I'm going to go and  
13 call us back to order. Let's jump it right back in here  
14 with the introduction to risk budgeting strategy, Item 6f.

15 CHIEF INVESTMENT OFFICER MUSICCO: Thank you for  
16 that. And again, as a reminder, this is one of those  
17 Board education pieces that we're delighted to chat with  
18 you about. And there will be more on this in the months  
19 and years to come for sure. But to kick it off, we have  
20 Michael Krimm joining us. Sterling and Michael's teams  
21 have been working very hard at getting our own team up to  
22 speed and thinking through different aspects of active  
23 risk budgeting, and so we wanted to present to you where  
24 we're at on our thinking.

25 (Thereupon a slide presentation).

1           INVESTMENT DIRECTOR KRIMM: Thank you, Nicole.  
2 Michael Krimm, CalPER staff.

3           So this agenda item is intended to provide  
4 transparency on a management technique called risk  
5 budgeting that is being implemented within the Investment  
6 Office.

7   --o0o--

8           INVESTMENT DIRECTOR KRIMM: The goal of risk  
9 budgeting is to ensure we make most efficient use of the  
10 leeway granted to staff in policy to pursue value-added  
11 incremental to the policy benchmark. Risk budgeting  
12 encompasses the sphere of activity we call active risk,  
13 which broadly speaking means the sum total of all our  
14 deliberate departures from a theoretically precise  
15 interpretation of implementation of the policy benchmark.  
16 Active risk budget is thus distinct from the primary risk  
17 allocation decision that our institutional makes, which is  
18 strategic asset allocation. That is done in the context  
19 of the asset liability management process.

20           In contrast to strategic asset allocation, where  
21 the Investment Committee is central in the decision  
22 process, active risk budgeting is primarily about how  
23 CalPERS CIO manages her team and the portfolio to add  
24 additional value above the strategic asset allocation, and  
25 you heard Nicole talking about value-add earlier, so



1                   --o0o--

2                   INVESTMENT DIRECTOR KRIMM: All right. So I'm  
3 going to start with a stylized representation of a  
4 traditional risk allocation process. Strategic asset  
5 allocation is appropriately the starting point being the  
6 most important driver of risk and return in the portfolio.  
7 Strategic allocation produces a set of weights to our  
8 various asset classes, which are then embodied in a policy  
9 benchmark also known as a policy portfolio. And then  
10 decisions about where and how much active risk to take are  
11 made for each individual asset class relative to its  
12 respective portion of the policy benchmark.

13                   There are several issues with this approach to  
14 allocating active risk. First, active allocation is tied  
15 implicitly to percentage weights in the asset allocation.  
16 But what if the opportunity to use active management is  
17 lower in a higher weight asset class and higher in a lower  
18 weight asset class? The problem is that asset allocation  
19 weights are based on underlying economic considerations  
20 that may be different from the opportunity set for active  
21 management to add value in various segments. We can and  
22 do work around this in practice, but still the emphasis on  
23 allocation weights as a starting point can create a subtle  
24 anchoring bias in active decision-making.

25                   A second issue with this traditional approach is

1 that it tends to be driven bottom up. As a result, there  
2 is a tendency to miss the interaction across programs of  
3 various active strategies to potentially get inconsistent  
4 or suboptimal active risk allocations across programs or  
5 to negligent active opportunities in asset classes not  
6 currently in the benchmark. In other words, the top-down  
7 view is not naturally integrated into the decision  
8 process. Again, in practice, the top-down view does get  
9 applied, but it tends to be more as an override than as an  
10 ongoing complement to bottom-up decision-making.

11 Over the last 10 years, CalPERS has made great  
12 strides in moving beyond the traditional approach shown  
13 here. The level of transparency and coordination between  
14 investment programs today is not recognizable to those  
15 involved in the process 10, 15 years ago. There's  
16 awareness and consideration of the total portfolio when  
17 making individual active risk decisions. Still, we think  
18 we are missing the consistent framework and process  
19 necessary to institutionalize these improvements, and  
20 that's what this risk budgeting is about.

21 If we'd jump to page five, please.

22 --o0o--

23 INVESTMENT DIRECTOR KRIMM: All right, so before  
24 I go into the new process in contrast to the schematic I  
25 just showed you, I'm going to step back and go kind of

1 even deeper into underlying theory here. It starts with a  
2 simple question that one should always ask, whether of an  
3 individual investment opportunity or really even of an  
4 entire portfolio. And that question is why should we  
5 expect to get paid a return in the first place? Who is at  
6 the other end paying me the return? Where is the money  
7 coming from?

8           The answer to this question helps us to recognize  
9 that there are two very different ways to make money in  
10 investing, and they call for different separate risk  
11 allocation processes. First, for any investment, there is  
12 almost always what we call a systematic component of the  
13 return. In fact, for both our portfolio and pretty much  
14 any institutional portfolio, systematic drivers will  
15 explain the majority of both risk and return outcomes.  
16 What we call systematic returns are essentially our reward  
17 for being -- for being a provider of capital in the global  
18 economy. Systematic returns, as I use the term here,  
19 represent a combination of interest rates, which is the  
20 basic value of money that we're lending or investing, plus  
21 an additional compensation for taking additional risk,  
22 which we called risk premiums.

23           Let me give a few examples. As shareholders in  
24 companies, either public or private, we part -- we get to  
25 participate in the full economic upside of those companies



1 in exchange for taking the riskiest place on the capital  
2 structure as equity owners, so we have maximum potential  
3 upside as well as downside. Therefore, we should expect  
4 equities to generate relatively high returns. And in  
5 practice historically, equities have generated among the  
6 highest returns of any assets far exceeding the return on  
7 cash.

8           So that's what we call the equity risk premium.  
9 Similarly, if we instead lend money to a company, for  
10 example, by buying its bonds, we have a higher place in  
11 the capital structure than an equity holder and we are  
12 more likely to get our money back in the event of a  
13 default than with an equity position. Correspondingly,  
14 bonds tend to have lower risk than equities, but also  
15 generate lower returns, but they should still be expect to  
16 outperform a cash investment. In other words, we should  
17 still expect a premium. And so that kind of logic flows  
18 through all of our asset classes in all the subsegments of  
19 our asset classes, and that is kind of the idea behind  
20 systematic drivers of returns.

21           In contrast to these drivers, I'm going to focus  
22 on the right side, the number 2 here now. Value-add is a  
23 fundamentally different return driver. And when I say  
24 value-add, in this case, it's synonymous with active  
25 return or active risk. Value-add is about beating the

1 market. It is about picking the top quartile while  
2 someone else gets the bottom quartile. It's about having  
3 access to great opportunities or great managers on account  
4 of our size or relationships that maybe other investors  
5 don't. And you heard Anton talking earlier about  
6 persistence among certain types of managers. It's about  
7 being overweight a winning sector relative to a losing  
8 sector. It can also be about driving down fees and costs  
9 relative to some benchmark level of fees and cost.  
10 Fundamentally, value-add is about getting paid for skill  
11 or closely related taking advantage of unique structural  
12 advantages.

13           Importantly, these return drivers are not neatly  
14 separated across individual investments. Almost any asset  
15 we buy incorporates all of these return drivers. One of  
16 the ways we can unpack the difference is to use benchmarks  
17 or indices. Indices can be used to isolate systematic  
18 drivers, such that any departure from the index is  
19 described as value-add or active risk. This approach is  
20 well grounded in theory, particularly for equities. But  
21 even for other asset classes -- I would say for other  
22 assets classes in particular for privates, it can be  
23 useful, although the line is not always so clear between  
24 value-add and systematic drivers of return.

25           As a practical matter, we can broadly set up a

1 benchmark as kind of a baseline representing mostly the  
2 systematic portion of returns and then treat differences  
3 to the benchmark as active returns or value-add. And  
4 this, in fact, how CalPERS is governed and many of our  
5 peer institutions as well.

6 Can we skip ahead just for time's sake to 7.

7 --o0o--

8 INVESTMENT DIRECTOR KRIMM: Thank you.

9 So when we look at these return drivers, there's  
10 some important distinctions and they will lead to kind of  
11 how we think about managing the two allocation processes.  
12 Systematic returns are about gaining exposure to broad  
13 asset classes. Decision-making thus centers around  
14 research into the structure of markets and of the economy.  
15 Systematic returns are reliable in the long run, because  
16 they are intrinsic to the functioning of the modern  
17 industrial economy, but they are also risky, meaning we  
18 can have long painful drawdowns. It's usually tied to the  
19 economy and exactly the same time that our stakeholders  
20 are also experiencing economic pain. And I would just  
21 reference the slide Nicole spoke to earlier in her remarks  
22 that most of our risk is coming from assets that are  
23 sensitive to economic growth. And that's an example of  
24 one of the challenges of earning returns from systematic  
25 drivers. That's the kind of risk we take to earn the

1 returns.

2           In contrast, value-add being competitive is not  
3 as reliable. It requires -- in other words, I just want  
4 to make this clear. Systematic returns are in sense  
5 reliable. There are -- there's at least a hundred years  
6 of history and research across the global markets  
7 supporting the existence of a positive return above cash  
8 from equities, and that is the foundation of much of  
9 our -- of our asset allocation, and similarly for the  
10 under -- other assets. So, in that sense, they're  
11 reliable, even though they're risky and we can have  
12 painful drawdowns.

13           But again, in contrast, value-add is not as  
14 reliable. It requires constant innovation to access,  
15 because the edge, the unique institutional advantages that  
16 we need to have to generate value-add are constantly being  
17 competed away. You have to fight for every basis point  
18 and yesterday's winning strategy may not work tomorrow.  
19 In any -- in some aspects, value-add can even be a zero  
20 sum game. For example, when it comes to picking managers  
21 for us to be top quartile, someone else has to be the  
22 bottom quartile. Other aspects of value-add can also be  
23 more structural and less zero sum.

24           For these reasons, risk allocation and value-add  
25 is as much about managing people, and teams, and managers

1 as it is -- and it's also about building our institutional  
2 capabilities. In other words, it's about organizational  
3 stuff. It's as much about that as it is about kind of  
4 pure economic research. Although there is such a  
5 component as well. And that sphere of value-add  
6 decision-making as opposed to systematic returns is what  
7 risk budget is seeking to address.

8 Let's jump to 9, please.

9 --o0o--

10 INVESTMENT DIRECTOR KRIMM: So just to conclude,  
11 the kind of theoretical discussion, this is an updated  
12 schematic of a risk allocation process that integrates  
13 risk budgeting for managing active risk taking. So first  
14 of all, on the left side of the diagram, strategic asset  
15 allocation remains as today, but for active risk, the top  
16 level starting point is the establishment of value-add  
17 targets and related active risk budgets overall for the  
18 portfolio as well as by program, and that's illustrated by  
19 the little table on the right.

20 The distinction from the traditional process here  
21 is to tie active risk allocation and value-add goals not  
22 to segments, percentages of the strategic allocation, but  
23 essentially to people, to programs, to parts -- to  
24 organizational units that are in turn managing the various  
25 asset segments.

1           Each program is expected to add value and will  
2 receive an active risk budget in line with its respective  
3 opportunity set in its assets class, its inherent  
4 structural advantages, skill, and market characteristics,  
5 and so on. At the highest level, we expect to review  
6 these quote budgets on a regular basis, for example,  
7 annually. Similarly, these budgets allow room for  
8 planning. For example, we can establish expectations of  
9 value-add around the current set of strategies in the  
10 portfolio, while we also formulate longer term goals as we  
11 build program capabilities and adjust the portfolio over  
12 time.

13           Keep in mind that in all of this, we are talking  
14 about value-add and active risk, and that means relative  
15 to the underlying asset allocation and relative to the  
16 policy benchmark. And all of this is being done within  
17 the confines of existing policy limits that have been  
18 established by the Committee. Each program will continue  
19 to manage its respective asset class holistically as today  
20 and within the leeway established by policy.

21           But risk budgeting will create an increased  
22 emphasis on how each program's activities utilize that  
23 leeway relative to policy. The more a program's portfolio  
24 varies from the base line implementation of the asset  
25 class embodied by the policy benchmark, the more value it

1 is expected to add. This is the idea of an incremental  
2 return commensurate with risk.

3 Let's skip to the next section. We're going to  
4 go into a little bit of the governance and organizational  
5 aspects now. Page 13, please.

6 --o0o--

7 INVESTMENT DIRECTOR KRIMM: So what I'm  
8 presenting you here is kind of a simplified representation  
9 of how CalPERS governance works around the areas of  
10 strategic asset allocation and as well as active risk and  
11 value-add. And again, I've kind of distilled from policy  
12 here. This is not some kind of, you know, legal  
13 interpretation of policy. It's just for kind of trying to  
14 communicate the points.

15 But let me start with strategic asset allocation,  
16 which is a contrast to the risk budgeting that I'm going  
17 to talk about. In strategic asset allocation -- and  
18 again, strategic asset allocation is the process by which  
19 we determine our exposure to systematic risk and return  
20 drivers. That process, the key decision-maker is you as  
21 the Investment Committee. And you have a formal role to  
22 approve capital market assumptions, CMAs, as well as  
23 finally to select a policy portfolio. And the role of  
24 staff is to research and recommend portfolios and  
25 portfolio options and to advise you on trade-offs. This

1 is not to say that staff does not share responsibility for  
2 the outcomes of the strategic asset allocation, but  
3 clearly the Board has a central and formal role in the  
4 process.

5           In contrast, when it comes to active risk and  
6 value-add, which is what risk -- active risk budgeting is  
7 about, the central decision-maker is the Chief Investment  
8 Officer. The role of the Board in contrast is to  
9 establish appropriate policies that govern staff's  
10 discretion to depart from the policy portfolio. In other  
11 words, you have set the playing field for taking active  
12 risk, which Nicole then allocates across the portfolio and  
13 across her team. It's the Board's role to authorize the  
14 appropriate business -- enable business changes, as well  
15 as monitor outcomes.

16           Staff's role is essentially to execute propose,  
17 build, and then run active strategies, manage total  
18 portfolio trade-offs, and provide transparency. And that  
19 item that I circled there, managing total portfolio  
20 trade-offs, that is the realm of risk budgeting. And  
21 again, I want to emphasize, all -- this governance is --  
22 this is how things are today and we have always done these  
23 activities. Risk budgeting is coming in and trying to  
24 take this area that we've circled and trying to make it  
25 better, and that's where it fits in.



1           Let's jump to 15, please.

2                               --o0o--

3           INVESTMENT DIRECTOR KRIMM:   So one of the  
4 outcomes of risk budgeting will be to create a little more  
5 formality around various interactions within the  
6 Investment Office.  And this page illustrates some of the  
7 key organizational roles, as we envision risk budgeting to  
8 unfold at CalPERS.

9           At the center of the model is the concept of an  
10 ongoing dialogue, potentially formalized as an annual  
11 planning cycle, similarly to, you know, financial  
12 budgeting, but likely involving touchpoints throughout the  
13 year.  Within that process, the Chief Investment Officer  
14 is the ultimate decision-maker.  The programs, as today,  
15 propose, develop, and implement strategies.  And then the  
16 total portfolio team, which Sterling and I are  
17 representing here, brings -- facilitates the conversation  
18 and provides the integrated portfolio perspective.

19           In addition, the total fund team is expected to  
20 provide a little bit of an independent view as well when  
21 even a counterpoint, if not challenged, to program driven  
22 assumptions.  So we're not seeking to build obviously a  
23 confrontational process, but we are trying to ensure some  
24 richness and back and forth institutionalized into the  
25 ongoing discussion between the CIO and the programs about

1 their value-add targets and risk budgets.

2 Next page, please.

3 --o0o--

4 INVESTMENT DIRECTOR KRIMM: I'm just going to  
5 conclude with kind of Where we are in setting this up.  
6 I'm not going to go the individual points and happy to  
7 provide more detail on the progress this year, but I would  
8 summarize that we have -- I think we have taken the  
9 crucial step this year of getting started. I think we  
10 have started to kind of plant a -- maybe it's kind of like  
11 we've planted a tree and it's there now. It's visible.  
12 It's part of the process. It's going to continue to take  
13 what I would call some managerial direction and intention  
14 over the next few years. But the long-term goal is for  
15 this to become a kind of an inherent fixture of how we do  
16 risk allocation at CalPERS that kind of runs by itself  
17 without kind of requiring a project to push forward.

18 So that's the end of my comments. I'm ready for  
19 questions.

20 CHAIRPERSON MILLER: Okay. Thank you. And we do  
21 have some questions. Director Pacheco.

22 COMMITTEE MEMBER PACHECO: Thank you very much  
23 for your -- thank you for the presentation and so forth.  
24 So my question is back to slide number 10 and I want to  
25 go -- let me go back to mine as well here. So regarding

1 the true value-add is diversifying to systemic risk in --  
2 you know, I'm just curious how confident you all -- are  
3 you that the increased active risk taking will not  
4 meaningfully increase the total fund's risk profile, if  
5 you can elaborate on that, please?

6 INVESTMENT DIRECTOR KRIMM: Yeah. Thank you for  
7 going to this page. I skipped it for the sake of time,  
8 but I'm happy to -- glad to get to talk to it.

9 COMMITTEE MEMBER PACHECO: Yeah. Thank you. I  
10 appreciate it.

11 INVESTMENT DIRECTOR KRIMM: How confident are we?  
12 I would say we're -- we're probably a little bit more  
13 confident than we can be in whether there will be positive  
14 value-add in the first place. So in general, this game of  
15 generating value-add is a difficult one, so we have to be  
16 appropriately humble in setting our expectations. But I  
17 would say the process of understanding the nature of the  
18 risks we're taking and the ability to control those risks  
19 is a little easier to predict and manager than whether we  
20 actually make money.

21 So I'd say we're reasonably confident that if  
22 pursued appropriately value-add can, in fact, be  
23 diversifying. Now, I want to emphasize something, and the  
24 chart here is a little misleading just how it came out,  
25 because it implies that the diversification eliminates,

1 right? That's not actually true. It does, with pretty  
2 reasonable assumption, get pretty diversified away, but  
3 there is a slight change in the risk profile of the plan.  
4 And we do expect a little more value-add to add some  
5 amount of incremental risk to the total portfolio.

6 But bear in mind, you have, at some level,  
7 already established your comfort with that through policy  
8 and through the broad range of constraints including the  
9 tracking error constraint, but also all the other  
10 constraints on private assets. So it certainly will stay  
11 within those boundaries of that comfort level. But in  
12 terms of total portfolio outcomes, we do expect  
13 diversification.

14 One other comment on the topic of  
15 diversification, diversification does not mean hedging.  
16 In other words, it does not mean we reduce the risk.  
17 There is the possibility with active strategies with  
18 value-add --

19 COMMITTEE MEMBER PACHECO: Um-hmm.

20 INVESTMENT DIRECTOR KRIMM: -- of drawing down  
21 even at the same time that the economy draws down,  
22 rather -- but the intention is that you don't guarantee  
23 the drawdown, that you also have the potential of  
24 outperforming when the economy is drawn down. It's about  
25 establishing a set of bets that will not just necessarily

1 always draw down when the economy draws down.

2 COMMITTEE MEMBER PACHECO: Thank you very much  
3 for those -- that comment.

4 CHAIRPERSON MILLER: Okay. Lynn Paquin.

5 ACTING COMMITTEE MEMBER PAQUIN: Thank you.  
6 Thank you for the presentation. I was just curious and  
7 this is a question, I think, on the last slide that you  
8 showed. And are you intending to create a risk budget per  
9 asset class or is it one risk budget and then it will be  
10 kind of taking a look at the whole and how it all lays  
11 out?

12 INVESTMENT DIRECTOR KRIMM: The current plan is  
13 to create essentially one risk budget per program --

14 ACTING COMMITTEE MEMBER PAQUIN: Um-hmm.

15 INVESTMENT DIRECTOR KRIMM: -- so per managing  
16 director, if you will. You know, we may -- we may modify  
17 that a little bit as we go along, but that's the level at  
18 which we want to establish it, so each MID will  
19 essentially have a target value-add and a target level of  
20 risk defined in various ways that they're expected to use  
21 to achieve that value-add relative to their parts of the  
22 allocation.

23 Dan, you want to jump in.

24 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Yeah.  
25 The only thing I would add there to your question is both,

1 right? So we will have a total fund value-add target and  
2 then that allocates down mathematically to each program  
3 having a value-add target.

4 INVESTMENT DIRECTOR KRIMM: Thank you.

5 ACTING COMMITTEE MEMBER PAQUIN: Okay. No, that  
6 makes sense. And then how we determine which asset class  
7 gets -- would they all be equal or I'm assuming that  
8 there'd be differences depending on what strategies?

9 INVESTMENT DIRECTOR KRIMM: Yeah, I think that's  
10 the -- that's actually the critical task of risk budgeting  
11 to decide and it will not be equal. It's a function of  
12 the opportunity set in each program, the capability, where  
13 we are in building out the portfolio. And it can look  
14 very different across asset classes.

15 ACTING COMMITTEE MEMBER PAQUIN: Okay. Great.  
16 Thank you.

17 CHAIRPERSON MILLER: Okay. It doesn't look like  
18 I have any more requests to speak. And I thank you very  
19 much for this very illuminating presentation. And it  
20 really helps us understand the approach a lot better than  
21 when we came in the door. Thank you.

22 Okay. And that brings us to summary of Committee  
23 direction.

24 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: All  
25 right, we didn't have any specific Committee direction,

1 but there were some -- certainly some changes that we  
2 have, you know, action to come back on. First of all,  
3 with 5a, the Insider Trading Policy, we will get that out  
4 to our unions and our supervisory organizations and then  
5 bring it back in September. Director Middleton, you had  
6 the question on where we are relative to the metrics that  
7 Mr. Carney mentioned. We'll have that -- that will take a  
8 calculation. Probably when we come back in July, we'll be  
9 able to bring that back.

10 And then the last one was the Responsible  
11 Contracting Policy update for real assets -- for real  
12 estate, sorry. And I think that is due for an update on  
13 where we are compliance in November, so maybe we'll plan  
14 on bringing that back around November to sort of thread  
15 the needle between summer and the next fiscal year.

16 And I think the last thing that I had also was  
17 Tom just mentioned to me that the consultant -- Wilshire  
18 does have something for the consultant closed session, so  
19 hopefully we can make that happen. And that's all I have.

20 CHAIRPERSON MILLER: Thank you. I think that  
21 about covers it. And so I don't believe we have any --  
22 oh, there we go. Director Walker.

23 COMMITTEE MEMBER WALKER: Hi. I just have one  
24 thing I'd like to add. So this is the second meeting  
25 where we've had people testify and -- about people we're

1 invested with and horrific things that we're hearing, and  
2 so how do we hear back from staff or you on what's been  
3 done, or if anything has been done, because I would hate  
4 to think that people come and share their experiences and  
5 their stories and we're just, oh, that's sad and there's  
6 nothing else done. So I'd like to hear back.

7 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:

8 Certainly, I mentioned actually to Mr. Pacheco  
9 that while it wasn't directed, we certainly plan to follow  
10 up on the public comment that happened and we can  
11 definitely make a point of bringing that back to the  
12 Committee.

13 COMMITTEE MEMBER WALKER: Thank you.

14 CHIEF EXECUTIVE OFFICER FROST: Yeah, and just to  
15 add to that. On the member-specific issues that come  
16 before you for public comment, you do get the email from  
17 me stating, you know, the team followed up and here was  
18 the resolution of that issue, but we can do the same thing  
19 on the investment side.

20 COMMITTEE MEMBER WALKER: Appreciate it.

21 CHAIRPERSON MILLER: All right. Thank you.  
22 Okay. So I don't think we have any public -- any requests  
23 from the public to speak for 6h. So at that point, we  
24 will recess now into closed session for Items 1 to 6 from  
25 the closed session agenda, then we'll immediately



1 reconvene in open session after the closed session. So  
2 thank you.

3 (Off record: 4:13 p.m.)

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

6 (Thereupon the meeting reconvened  
7 open session.)

8 (On record: 5:15 p.m.)

9 CHAIRPERSON MILLER: Okay. I hereby reconvene  
10 the open session of the Investment Committee meeting, and  
11 barring any objections, we are now adjourned for the day.

12 (Thereupon, the California Public Employees'  
13 Retirement System, Investment Committee  
14 meeting open session adjourned at 5:15 p.m.)

15

16

17

18

19

20

21

22

23

24

25

