

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

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A P P E A R A N C E S

COMMITTEE MEMBERS:

Mr. Henry Jones, Chairperson

Mr. Bill Slaton, Vice Chairperson

Mr. Michael Bilbrey

Mr. John Chiang, represented by Mr. Steve Juarez

Mr. Richard Costigan

Mr. Rob Feckner

Mr. Richard Gillihan, represented by Ms. Katie Hagen

Ms. Dana Hollinger

Mr. J.J. Jelincic

Mr. Ron Lind

Ms. Priya Mathur

Mr. Theresa Taylor

Ms. Betty Yee, also represented by Ms. Karen Greene-Ross

STAFF:

Ms. Marcie Frost, Chief Executive Officer

Mr. Ted Eliopoulos, Chief Investment Officer

Mr. Matt Jacobs, General Counsel

Mr. Eric Baggesen, Managing Investment Director

Ms. Natalie Bickford, Committee Secretary

Mr. Dan Bienvenue, Managing Investment Director

Ms. Sarah Corr, Interim Managing Investment Director

Ms. Kit Crocker, Investment Director

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

STAFF:

Mr. Paul Mouchakkaa, Managing Investment Director  
Mr. Wylie Tollette, Chief Operating Investment Officer  
Mr. Lou Zahorak, Investment Director

ALSO PRESENT:

Ms. Rose Dean, Wilshire Consulting  
Mr. Allan Emkin, Pension Consulting Alliance  
Mr. Andrew Junkin, Wilshire Consulting  
Ms. Elizabeth Lasensky, Yolo Move On  
Mr. RL Miller, Climate Hawks Vote  
Ms. Melanie Myers, American Federation of Teachers  
Ms. Lynne Nittler  
Mr. Brian Snow, Corona Police Officers Association  
Mr. Ben Vernazza, Precision Fiduciary Analysis

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1  
2 CHAIRPERSON JONES: I'd like call the Investment  
3 Committee meeting to order. The first order of business  
4 is roll call, please.

5 COMMITTEE SECRETARY BICKFORD: Henry Jones?

6 CHAIRPERSON JONES: Here.

7 COMMITTEE SECRETARY BICKFORD: Bill Slaton?

8 VICE CHAIRPERSON SLATON: Here.

9 COMMITTEE SECRETARY BICKFORD: Michael Bilbrey?

10 COMMITTEE MEMBER BILBREY: Good morning.

11 COMMITTEE SECRETARY BICKFORD: Good morning.

12 John Chiang represnted by Steve Juarez?

13 ACTING COMMITTEE MEMBER JUAREZ: Here.

14 COMMITTEE SECRETARY BICKFORD: Richard Costigan?

15 COMMITTEE MEMBER COSTIGAN: Here.

16 COMMITTEE SECRETARY BICKFORD: Rob Feckner?

17 COMMITTEE MEMBER FECKNER: Good morning.

18 COMMITTEE SECRETARY BICKFORD: Good morning.

19 Richard Gillihan represented by Katie Hagen?

20 ACTING COMMITTEE MEMBER HAGEN: Here.

21 COMMITTEE SECRETARY BICKFORD: Dana Hollinger?

22 COMMITTEE MEMBER HOLLINGER: Here.

23 COMMITTEE SECRETARY BICKFORD: J.J. Jelincic?

24 COMMITTEE MEMBER JELINCIC: Here.

25 COMMITTEE SECRETARY BICKFORD: Ron Lind?

1 COMMITTEE MEMBER LIND: Here.

2 COMMITTEE SECRETARY BICKFORD: Priya Mathur?

3 COMMITTEE MEMBER MATHUR: Good morning.

4 COMMITTEE SECRETARY BICKFORD: Good morning.

5 Theresa Taylor?

6 COMMITTEE MEMBER TAYLOR: Here.

7 COMMITTEE SECRETARY BICKFORD: Betty Yee?

8 COMMITTEE MEMBER YEE: Here.

9 CHAIRPERSON JONES: Okay. Thank you very much.

10 The next item is Invest -- Executive Report, the Chief  
11 Investment Officer, Mr. Ted Eliopoulos.

12 CHIEF INVESTMENT OFFICER ELIOPOULOS: Wonderful  
13 Good morning, Mr. Chair, Members of the Investment  
14 Committee. Bear with me, I picked up a cold on a bit of  
15 recent travel. So I'll try and enunciate well here. And  
16 interesting to note the subject of my summary report today  
17 is really a travel report of sorts. I and the -- several  
18 members of the senior investment team have recently  
19 traveled to London and other parts of Europe and thought  
20 it would be beneficial to provide the Investment Committee  
21 a summary of our review of the economic condition and  
22 political climate in the Europe, based on our most recent  
23 trips there.

24 The most basic theme of our review is really a  
25 continuation of the uncertain politics with rising markets

1 phenomenon we are seeing really across the globe. The  
2 European markets, in tandem with that theme, have really  
3 been in a upswing of late, though not at the valuation  
4 levels that we see here in the U.S. And those -- that  
5 upswing is somewhat offset and muted by the continued  
6 strength of the U.S. dollar certainly.

7           These rising equity markets in Europe are  
8 occurring in the face of continued uncertainty around some  
9 really important and key political elections and decisions  
10 that will be made in some of the primary European markets  
11 in the year to come, as well as 2018. To list a few of  
12 them, the upcoming French elections, which have seen a  
13 resurgent of nationalist sentiments there; the recent just  
14 concluded Dutch elections, where Geert Wilders did not  
15 win, but his nationalist movement has certainly -- is  
16 certainly strong and has not gone away; upcoming German  
17 elections, which have seen Chairman Merkel center-right  
18 coalition challenged from both the left and the right;  
19 continued uncertainty on the Turkey's direction, its  
20 democracy and ability to integrate eventually into the  
21 European Union; and certainly the continued discussions  
22 perennial discussions around Greece's debt restructuring  
23 and solvency decisions.

24           To delve a little deeper into the European  
25 economic summary, first, and then conclude with a review

1 of the politics and the elections coming up, the Euro zone  
2 has been recovering really since 2012 after weakening very  
3 significantly during the global financial crisis. Some  
4 metrics, the annual GDP growth averaged 1.7 percent in  
5 2016 versus comparing the year 2012, where it had a  
6 contractionary negative 0.85 percent GDP growth.

7           Compared with the 2010 to 2012 period, we feel  
8 from an economic and market perspective that the tail  
9 risks in Europe have fallen. The economic recovery looks  
10 sustainable to us, and could very well be long lasting.  
11 Data are showing signs of growth broadening within the  
12 Euro zone, and importantly the breadth of growth a  
13 momentum across Europe countries is wide. For instance,  
14 we would note, in particular, the improvements in Spain  
15 and Portugal's economies.

16           Certainly key for future growth is the  
17 unemployment rate, which has fallend insteadly from 12  
18 percent in 2013 to 9.7 percent in the fourth quarter of  
19 2016.

20           The European Central Bank, the ECB, continues to  
21 keep its policy easing, and is expected to do so for the  
22 remainder of this year. The ECB has made it clear that  
23 this stimulatory policy will remain in place until pricing  
24 pressure pick up. And so far, there's really little  
25 evidence so far of pricing pressures coming into play.



1 Inflation is growing at less than one percent per year  
2 across the eurozone, and wage growth is stagnant.

3 In conclusion, with respect to the economic  
4 conditions in Europe, we are relatively optimistic on the  
5 economic outlook. We are very cautious as to how strong  
6 that growth will be, but we really have no great concerns  
7 from an economic perspective about the balance of risks to  
8 growth, as we see it at this point in time.

9 The key risk to the economic outlook that we  
10 would identify really is generally the health of the  
11 European banking sector, and, in particular, any  
12 deterioration of Italy's banking sector, and particularly  
13 the level of non-performing loans in the Italian banks and  
14 the spillover that may have on confidence and investment  
15 decisioning making within the EU.

16 Turning to the political risk, this is going to  
17 be quite a year in Europe. And there remain, you know,  
18 quite notable political risks, but these risks differ in  
19 each of the really different countries that make up the  
20 European block. France and Italy is where we would see  
21 the greatest near-term uncertainty. But looking across  
22 both France and Italy, and over across Europe, in general,  
23 is really part of the same back-drop that we've seen play  
24 out for the last year or so, which is a surge in populism  
25 globally playing out in response to rising income

1 inequality, particularly in the eurozone, rather than a  
2 function of any, you know, specific recent event.

3           In France, there is a possibility that the far  
4 right candidate, Marine Le Pen, may get through the first  
5 round of presidential elections. They have a two --  
6 two-step process in France. Polls for the second round  
7 suggest her chances are remote, at this point in time, at  
8 winning the second contest, if she gets through. She's  
9 fallen far behind any of the candidates that are  
10 competing.

11           What's raised I think the risk -- political risk  
12 in France really, since we've been making -- been in our  
13 trips, the far left candidate has seen a surge in the  
14 polling recently, and through this weekend. And his  
15 policies from the other end of the political spectrum are  
16 also a threat France's economic recovery and participation  
17 in the EU as well. Much more to come in France in the  
18 coming months.

19           Germany's election is probably too far in the  
20 future, September, to have any certainty around the  
21 outcome. But, you know, if a new Chancellor is chosen,  
22 and a new coalition government is formed, this has the  
23 potential probably to adjust the policies of Germany more  
24 at the margin, than more direct -- more dramatically.

25           The risk concerning Greece's most latest debt

1 restructuring was taken off the table for now, last week  
2 following an agreement with the EU and IMF. And lastly,  
3 on -- well, continuing on in this frame in that  
4 neighborhood, the Turkey -- the Turkish people just voted  
5 in a constitutional referendum, which while significant,  
6 many, and perhaps most market participants, consider it a  
7 formalization of an already consolidated power held by the  
8 incumbent President, Erdogan.

9 To touch briefly on the UK and its Brexit, we do  
10 believe it will act eventually as a drag on growth in the  
11 eurozone. We do have some concerns around the risks for  
12 the future of Great Britain, but these will extend far  
13 beyond 2018 as the United Kingdom embarks on its Brexit,  
14 its vote on Article 50, the voluntary exit from EU, which  
15 it began on March 29th of this year.

16 The impact of Brexit on the UK economy and the  
17 growth outlook is uncertain, as we think this negotiation  
18 process is going to be a long one, a dynamic one, a  
19 complex one, and one very hard to predict since it hasn't  
20 ever been undertaken before.

21 The last point on politics is a bit of a -- is a  
22 bit of a wild card is Italy, where we see probably the  
23 larger risk over the course of the next couple of years.  
24 It's a large economy. It's the third largest economy in  
25 Europe. And based on recent polling, the Italian populous

1 has the least support for remaining part of the EU of the  
2 major European countries.

3           The European -- the Italian growth is sluggish,  
4 and is really being dragged down by its banking sector's  
5 continuing dealing with the non-performing loan sectors of  
6 its banking system. Currently, 15 percent of all loans  
7 outstanding are NPLs, and that could deteriorate.

8           There was a failed referendum in December, as a  
9 bit of a split amongst the ruling party in Italy. And  
10 there is a growing anti -- really anti-government party  
11 known as the Five Star Movement, which is now based on  
12 the most recent polling its most popular political party.

13           So while we're not expecting an election in Italy  
14 until 2018, there's always the possibility under their  
15 parliamentary system for a snap election, so we'll be  
16 watching that very closely.

17           That's perhaps a longer summary of the economic  
18 and political situation, but it's an important part of the  
19 world, important part of the economy, important part of  
20 the marketplace. And really this back-drop of rising  
21 markets across the globe at the same time political  
22 uncertainty is rising, really, I think, and our team  
23 thinks, illustrates what is referred to as the climb --  
24 you know, climbing the wall of worry, that CalPERS and  
25 other investors really currently face this dichotomy

1 between the two.

2           Given that, you know, and in addition, the  
3 relatively high valuations across asset classes, we  
4 continue to feel that tail-risks are wider than they have  
5 been recently, and WE continue to support the current  
6 weighting of the portfolio in terms of our equity and cash  
7 balances.

8           And with that, Mr. Chair, I'd be Glad to answer  
9 any questions.

10           CHAIRPERSON JONES: Okay. Well, thank you very  
11 much, Ted. And no this is very helpful. And I would  
12 suggest you continue to keep updating us on the world  
13 economy as we go forward, and begin to embark upon our ALM  
14 process. So it's very helpful. We have several requests  
15 to ask questions, I guess.

16           Ms. Mathur.

17           COMMITTEE MEMBER MATHUR: Thank you, Mr. Chair.

18           Thank you very much for that assessment. That  
19 was really helpful. As you noted, economic inequality has  
20 been a major driver of populism globally in the -- in  
21 Europe as well as in the U.S. Do you see the recovery as  
22 being -- what do you see as the participation of all  
23 segments of the population in this current recovery that  
24 you've articulated?

25           CHIEF INVESTMENT OFFICER ELIOPOULOS: It

1 hasn't -- it hasn't been robust and certainly felt by most  
2 sectors of the economy -- the employment sectors. And I  
3 think that's one of the key questions or one of -- is one  
4 of the key questions facing policymakers across the globe  
5 how to try and stimulate the economy, and do it in a way  
6 that is either actually or perceived to be fair to all  
7 segments of the population and economic workforce.

8 COMMITTEE MEMBER MATHUR: And, I mean, I know the  
9 G20 have been talking a lot about economic inequality. Do  
10 you have any sense that policymakers are approaching some  
11 set of solutions -- policy solutions?

12 CHIEF INVESTMENT OFFICER ELIOPOULOS: I think  
13 these elections will be very important and how Brexit is  
14 settled on a number of topics. And some of the  
15 policymakers that are up for election have wildly  
16 divergent views of the right solution coming from, you  
17 know, very divergent parts of the spectrum. So I think  
18 it's going to be challenging to see any one answer come  
19 through.

20 Certainly in an area like the Eurozone where  
21 there's so many different constituent countries with  
22 different politics, and there's potentials for different  
23 policymakers, and they're preferred choice being elected  
24 this coming year. So it's difficult to predict.

25 COMMITTEE MEMBER MATHUR: I appreciate that.

1 CHIEF INVESTMENT OFFICER ELIOPOULOS: But we can  
2 see the fault lines and uncertainty that's playing out.

3 COMMITTEE MEMBER MATHUR: And then one last  
4 question. I don't know how -- I don't exactly when you  
5 came back, but was there much discussion about the  
6 favorable trade agreement that Trump has indicated he is  
7 going to give to China in exchange for help with North  
8 Korea? Anything else about that?

9 CHIEF INVESTMENT OFFICER ELIOPOULOS: You know,  
10 it's -- no, we'd -- I was -- my own trip was a few weeks  
11 back.

12 COMMITTEE MEMBER MATHUR: Okay.

13 CHIEF INVESTMENT OFFICER ELIOPOULOS: There's  
14 lots of -- you know, I mentioned that the backdrop of this  
15 rising sense of nationalism isn't -- isn't in reaction to  
16 any one event, but certainly for Europe, they are looking  
17 at the actions that Britain has taken with respect to  
18 Brexit. They're looking at the actions that the U.S.  
19 government is articulating. And these all have reactions  
20 to them as well. And I think my own assessment is that in  
21 many of the discussions with our partners in Europe is  
22 that the resolve -- the European resolve seems to be  
23 growing stronger to make that union work. in response to  
24 some of these other factors -- other actions that are  
25 going around the globe. So we'll see.

1 COMMITTEE MEMBER MATHUR: Okay. Thank you.

2 CHAIRPERSON JONES: Ms. Taylor.

3 COMMITTEE MEMBER TAYLOR: Thank you, Mr. Chair.

4 Ted, this is really great information, since I'm  
5 kind of the political wonk here, so -- but you'd  
6 mentioned -- I kind of feel like there was a little bit of  
7 a dichotomy here that tail risk in Europe has fallen, but  
8 then at the end, you're supporting the current weighting  
9 of the portfolio, but there's still worry over this growth  
10 because it seems like it -- I'm going to paraphrase you --  
11 it seems like it may not be real.

12 So it sounded like you were saying that it's kind  
13 of a growth that's not sustainable. So am I  
14 misunderstanding those two?

15 CHIEF INVESTMENT OFFICER ELIOPOULOS: I think  
16 I -- let me address the dichotomy, because it was there.  
17 So I appreciate you pointing it out.

18 I think the tail risk -- the economic conditions  
19 in Europe seem to be strengthening to us from an economic  
20 perspective.

21 COMMITTEE MEMBER TAYLOR: Okay.

22 CHIEF INVESTMENT OFFICER ELIOPOULOS: All the  
23 signs are unemployment is going down, GDP growth has come  
24 up off -- you know, off a negative level to a modest -- a  
25 modest level, but it's positive and growing. There's no



1 signs of inflation or wage pressures.

2           Those are all very positive signs on the economic  
3 side. And certainly comparing it to the financial crisis,  
4 the time period, the tail risk from an economic  
5 perspective has lessened within Europe.

6           These political events, phenomena, elections have  
7 risen. So overall, the biggest risk to the European  
8 recovery is political, and that is hard to quantify, and  
9 impossible to quantify. The markets are telling us not to  
10 worry so much about that, and we take that quite  
11 seriously. And that's the dichotomy that we're pointing  
12 out is rising asset values, rising equity prices at a time  
13 there's very disparate and distinct political risks within  
14 this region, as well as the globe. And it's interesting.

15           COMMITTEE MEMBER TAYLOR: So the tension is  
16 there --

17           CHIEF INVESTMENT OFFICER ELIOPOULOS: The tension  
18 is there.

19           COMMITTEE MEMBER TAYLOR: -- but right now  
20 economically we're looking at a pretty stable economy,  
21 even though there's this tension of the politics behind --

22           CHIEF INVESTMENT OFFICER ELIOPOULOS: It's  
23 coming -- you have to remember for Europe, it's coming  
24 off -- coming off of the mat. It's coming off a very -- a  
25 very brutal period following the financial crisis.

1 COMMITTEE MEMBER TAYLOR: Right.

2 CHIEF INVESTMENT OFFICER ELIOPOULOS: Very  
3 difficult conditions, particularly in southern Europe.  
4 And watching the economies in Spain and Portugal  
5 strengthen, and seeing some of these other economic  
6 numbers strengthen, we think that has legs and should  
7 continue.

8 COMMITTEE MEMBER TAYLOR: That is a good thing.

9 And then I had a couple of other questions. One  
10 was the -- kind of on top of what Ms. Mathur had said.  
11 The income inequality issue that seems to be driving the  
12 of populism in the United States and all over Europe right  
13 now, is it -- well, first, is it helpful if we continue  
14 working towards incorporating that into our global  
15 governance as an investor, so that we are looking more  
16 towards the long term? Because as I see this, or as what  
17 you've explained, is this is a huge risk.

18 This risk of the political that has been driven  
19 by income inequality. And I'm sure that's not the only  
20 factor, but I think that's a very large part of the  
21 factor, and especially in the United States we heard that  
22 kite dramatically. So as investors and as -- and as we  
23 move forward, is that something that we should be even  
24 more adamant about, incorporating into our ESG, and into  
25 our global assets, et cetera.

1 CHIEF INVESTMENT OFFICER ELIOPOULOS: I think  
2 it's important that we have it as part of our global  
3 governance review this year going forward looking at it  
4 from an investor's perspective. The -- the challenge is  
5 that this phenomenon and force across the globe is really  
6 a -- is, at its heart, a very complex one, and a political  
7 issue to be confronted and dealt with and changed. What  
8 tools and tool -- in the toolkit for investors to affect  
9 change on this policy level is -- is a question.

10 Investors need to -- investors need to and we are  
11 monitoring, observing, trying to assess what -- what  
12 is -- what are the outcomes that are going to come out of  
13 this calderon of disparity. And I think what we're seeing  
14 are political events occurring, and elections occurring  
15 that are signaling change to current political structures  
16 across the globe.

17 What that change will be and what the effect will  
18 be to markets or investment strategies is almost -- is  
19 almost impossible to predict, but the -- the risk to these  
20 changing political structures is very real, and one that  
21 we take into consideration. But as I said, the markets  
22 seeing all this information and pricing that risk, at  
23 least to date, really are not pricing --

24 COMMITTEE MEMBER TAYLOR: Right.

25 CHIEF INVESTMENT OFFICER ELIOPOULOS: -- much of

1 a risk to these tail events, as much perhaps that you  
2 might see, in the words I'm using or others use around  
3 this. And we tend, as market participants, to rely on the  
4 wisdom of market pricing and valuation. And at least to  
5 date, those tail risks are not being priced into asset  
6 prices.

7 COMMITTEE MEMBER TAYLOR: Which I find kind of  
8 interesting that -- it makes me a little concerned because  
9 you did mention that there was still stagnant wage growth,  
10 that the -- that Europe is still doing some easing, which  
11 we backed off of. Now, granted, they started later. I  
12 understand that. And the easing is, of course, as we saw  
13 in the United States, it's the easing to the banks. It  
14 doesn't help main street.

15 So I know the eventuality of it is supposed to go  
16 down to main street. So this is where I -- I'm concerned  
17 that we're looking at something where these markets, and  
18 our market as well, is looking at a false positive right  
19 now because of -- I don't know why -- because everything  
20 else is pointing to a lot of uncertainty and risk.

21 But I appreciate -- I just have -- and I get the  
22 fact that we don't have the tools. It's more of a  
23 political tool, et cetera. I think had -- there's all  
24 kinds of things that we could have done differently in  
25 this country and in Europe during the crash, but we did

1 not. I was just hoping that maybe as investors, there's  
2 something that we could do as well.

3 I appreciate it. Thank you.

4 CHAIRPERSON JONES: Mr. Jelincic.

5 COMMITTEE MEMBER JELINCIC: The -- I have some  
6 observations, but I also have a couple of questions.  
7 The -- the two questions actually probably would have been  
8 more helpful earlier to provide context. But when is the  
9 French election and when is the German election?

10 CHIEF INVESTMENT OFFICER ELIOPOULOS: The German  
11 election is in September.

12 COMMITTEE MEMBER JELINCIC: I'm sorry?

13 CHIEF INVESTMENT OFFICER ELIOPOULOS: September.

14 COMMITTEE MEMBER JELINCIC: September.

15 CHIEF INVESTMENT OFFICER ELIOPOULOS: Sorry.  
16 Excuse me. And the French election comes in two stages.  
17 The first -- the first one is just weeks away, I believe.  
18 And the second one is about a month or two subsequent to  
19 that.

20 COMMITTEE MEMBER JELINCIC: Okay. And -- thank  
21 you.

22 The -- you know, you observed that there was not  
23 going to be an election in Italy for awhile. I think the  
24 only thing we know is there won't be an election this  
25 month.

1 (Laughter.)

2 CHIEF INVESTMENT OFFICER ELIOPOULOS: That's very  
3 wise.

4 COMMITTEE MEMBER JELINCIC: You know, the last  
5 time I calculated it, the average life of a government in  
6 Italy, since the Second World War was 17 months, so we're  
7 due.

8 (Laughter.)

9 COMMITTEE MEMBER JELINCIC: The -- a couple of  
10 observations. I think we have to be aware that a big  
11 reason the risk may not be priced into the market is that  
12 the central banks have just flooded the market with money,  
13 and it's got to go some place. And so that may be part of  
14 the failure to price risk.

15 And then reacting to something that Theresa said  
16 about inequality driving politics. I'm not -- I'm not  
17 convinced that that's actually what's -- the way the  
18 directionality goes. The inequality is a result of  
19 political decisions we made. We have said, you know,  
20 corporations are more important than people, and we've  
21 done that consistently. And so I think -- you know, I'm  
22 not sure which way the causality goes.

23 Thank you, Mr. Chair.

24 CHAIRPERSON JONES: Okay. Thank you.

25 Okay. That completes the questions. Thank you

1 very much.

2           And now we will move to the next item on the  
3 agenda, the action consent items, approval of the March  
4 13, 2017 minutes.

5           COMMITTEE MEMBER MATHUR: Move approval.

6           COMMITTEE MEMBER TAYLOR: Second.

7           CHAIRPERSON JONES: Moved by Mrs. Mathur, second  
8 by Mrs. Taylor.

9           All those in favor say aye?

10           (Ayes.)

11           CHAIRPERSON JONES: Opposed?

12           Hearing none the item passes. Thank you.

13           I have no requests to move anything on the  
14 consent information items.

15           So we will now move to Item number 5a, Revision  
16 of Total Fund Investment Policy, second reading.

17           Mr. Tollette.

18           CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

19           Thank you, Mr. Chair, and good morning Investment  
20 Committee. This is the second reading of the total fund  
21 investment policy. We brought the first reading to you in  
22 February. And we have Kit Crocker from our Investment  
23 Compliance and Operational Risk Team in the Investment  
24 Office and Rose Dean from Wilshire here to speak to the  
25 policy.

1           And with that, I'll turn it over to Kit.

2           INVESTMENT DIRECTOR CROCKER: Yes. Thank you,  
3 and good morning. Kit Crocker, CalPERS staff.

4           The updates fall into four main categories.  
5 They're updates to the divestment section; secondly, the  
6 incorporation of the previously stand-alone Global  
7 Governance Program Policy into the Total Fund Policy;  
8 there's an expansion of the liquidity investment universe  
9 to include investment grade sovereign debt; and finally,  
10 clean-up changes to reflect interim decision making and  
11 guidance from the committee, such as the new interim asset  
12 allocation targets for the PERF that were established by  
13 the Committee last fall.

14           So the first two sets of changes pertaining to  
15 divestment and the Global Governance Program are the  
16 outcome of extensive discussions between the Committee and  
17 staff in recent years. The changes to the divestment  
18 section emphasize our preference for engagement, they add  
19 periodic review and monitoring processes to ensure that  
20 prior divestments remain supportive of the prudent  
21 stewardship of the portfolio. And thirdly, they add  
22 notice and voting protocols to ensure the appropriate  
23 level of focus and transparency for these important  
24 decisions.

25           Also, I'd note that for the divestment sections



1 in response to Committee feedback, we're also proposing  
2 deletion of the additional 72 hours notice to stakeholders  
3 to avoid any perceived conflict with the Bagley-Keene  
4 notice requirements, which actually provide for a longer  
5 notice period.

6 The newly christened governance and  
7 sustainability principles have been updated since the  
8 first reading of the Total Fund Policy in February to  
9 reflect the addition of a new section on capital  
10 allocation as proposed at the March 2017 Committee meeting  
11 as of just last month. And with regard to the expanded  
12 investment universe for the liquidity program, staff  
13 believes that the inclusion of investment grade sovereign  
14 debt will increase diversification and potentially enhance  
15 the risk return profile of the portfolio.

16 Then finally in that fourth category of clean-up  
17 changes are things such as updating the policy to reflect  
18 the new interim asset allocation targets that this  
19 Committee approved last fall with appropriate conforming  
20 changes to related sections. We've appended the Bloomberg  
21 name, wherever the Barclays index was referenced in light  
22 of the relatively recent acquisition and co-branding by  
23 Bloomberg of the Barclays indices.

24 We've deleted a reporting duty from the private  
25 asset class Board consultant's reporting section that is

1 duplicative with reporting duties of the general pension  
2 consultant. And we've updated references to the former  
3 TIP, or Targeted Investment Program, to reflect the new  
4 program name of Investment Manager Engagement Programs.

5 So this is an action item, and we're seeking the  
6 Committee's approval. And with that, I'll pause and ask  
7 for any questions.

8 CHAIRPERSON JONES: Okay. Yes. We do have Mrs.  
9 Yee.

10 COMMITTEE MEMBER YEE: Thank you, Mr. Chairman.

11 First, I want to just express my appreciation for  
12 the inclusion of the Global Governance Program Policy,  
13 which I think will be very useful and an important step to  
14 fully integrate ESG considerations into the Investment  
15 Office, so very much appreciate that.

16 I wonder if you could comment a little bit about  
17 the sovereign debt. And I know that -- I mean, I just  
18 want to get a handle about how much additional return from  
19 investing in hedge sovereign debt we might expect, as  
20 compared to current investments. I just don't -- it's not  
21 something I'm familiar with, so I'm trying to get a handle  
22 on it.

23 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

24 I'll attempt to take that, and I might also ask  
25 Lou Zahorak from the Global Fixed Income team, whoc

1 comment more broadly on that.

2           But on -- this is -- we're talking about --  
3 that's a good question, Controller Yee. The short answer  
4 is, is it changes on a day-to-day basis depending on sort  
5 of the movements in the short-term -- short-term bond  
6 market. What we're talking about here is essentially  
7 instruments that mature within 15 months. And that's a  
8 very liquid and very competitive marketplace.

9           There's not a lot of additional sort of alpha to  
10 extract in the very short-term markets. The opportunity  
11 set currently is quite limited for the fixed income team,  
12 and they believe the inclusion of the these short-term  
13 fixed income sovereign bond instruments, all investment  
14 grade.

15           And importantly, if you'll notice in the  
16 materials actually on -- in your iPads, it would be on  
17 page 56 of 100 of attachment 2, the -- you'll notice that  
18 the short-term ratings that we're talking about using for  
19 these are consistent across the countries and instruments.  
20 So even though perhaps the long-term sovereign ratings  
21 might be different, the short-term ratings, which are  
22 really the ratings that we care about in this particular  
23 program, are consistent with A2P2, which is -- they use  
24 slightly different terminology in the short-term bond  
25 markets than they do for long-term ratings.

1           So we're not talking about a diminution of the  
2 credit quality. We're really talking about just an  
3 expansion into sovereign bonds. Other than just the U.S.  
4 Sovereign bond market, we're looking at some of the other  
5 investment grade countries.

6           So with that, I'll ask for Lou to also provide  
7 some commentary.

8           COMMITTEE MEMBER YEE: Okay.

9           INVESTMENT DIRECTOR ZAHORAK: Thank you, Wylie.

10          There's times in the international markets where  
11 there's greater demand

12          CHAIRPERSON JONES: Indicate your name, please.  
13 State your name.

14          INVESTMENT DIRECTOR ZAHORAK: Lou Zahorak,  
15 Investment Director in Global Fixed Income. There's times  
16 in the currency markets where there's greater demand for  
17 currencies in given countries. For example, if there's a  
18 period of time over a short-term window where there's  
19 greater demand for Japanese Yen, and there they want to  
20 borrow U.S. dollars, let's say, and we can get compensated  
21 more by investing our -- our assets in, let's say, a  
22 Japanese sovereign bond and hedge it back. So, in fact,  
23 we have no currency risk, but we get a higher interest  
24 rate for just that term period of time.

25          So that's the type of investment strategy this

1 is. Again, Wylie said we're looking at investment grade  
2 quality investments similar to what we would look for in  
3 investing in U.S. Banks or U.S. corporations, so it's of  
4 comparable quality.

5           The one thing we did do in looking at this  
6 addition to our strategy is we actually looked at the  
7 historical default rates of sovereigns. And when I say  
8 the default rate, so, in essence, that sovereign i.e.,  
9 like a Japan, would have to go into default. And  
10 remember, they have the ability to print currency just  
11 like any other country can.

12           And so for a country to go into default, and to  
13 fall quickly into default from an investment grade rating,  
14 we looked back. It historically happens much, much less  
15 frequently than would actually happen relative to  
16 corporate exposures.

17           So we have to actually look at this from a risk  
18 expanse standpoint to actually being -- you know, we can  
19 actually add some return, and we actually look at it from  
20 a true risk standpoint as having even less risk than our  
21 current corporate exposures.

22           In terms of the quantity or how much additional  
23 yield, it really varies. I don't want to give you a  
24 number. Is it 20 basis points? Is it 30 basis points?  
25 It really varies. This isn't a high risk program. Our

1 goal is merely to put the cash to work, generate some cash  
2 returns with zero loss rates. That's our real goal.

3 COMMITTEE MEMBER YEE: Okay.

4 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: I  
5 was just going to add that it --

6 INVESTMENT DIRECTOR ZAHORAK: We think it's an  
7 appropriate diversification tool.

8 COMMITTEE MEMBER YEE: Right. Okay.

9 INVESTMENT DIRECTOR ZAHORAK: And gives us  
10 capacity, because that's another thing. We're looking to  
11 add capacity, i.e. more line item exposures. And thus  
12 this helps us achieve that, because there is large size in  
13 the currency markets and much depth.

14 COMMITTEE MEMBER YEE: So could this have the  
15 potential of being the tool that gives us a little bit  
16 more of a potential of having some planning relative to  
17 how we have the fixed income team come up with kind of a  
18 better process for looking at longer term instruments with  
19 higher returns?

20 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

21 Yeah, that's -- that's a great question actually.  
22 This is a little different than that. It's certainly  
23 gives the fixed income team the opportunity to expand  
24 their investment set. I think the challenge of coming up  
25 with what might be called a "term schedule" for our

1 Liquidity Program is really something that we're planning  
2 to build into an element of our asset liability management  
3 process, where we have added that as an action item for  
4 our own internal staff to come up with that schedule of  
5 when we think we'll need different components of that  
6 Liquidity Program that might allow us to look at extending  
7 the term. We're doing that I'd say very cautiously in the  
8 interim, where we don't have a term schedule. We  
9 essentially have to make sure to keep maturities very  
10 short.

11 COMMITTEE MEMBER YEE: Right.

12 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: The  
13 core emphasis of this program is capital preservation.  
14 This is where we want to, in all markets, be able to  
15 extract the liquidity, to then redeploy into markets that  
16 might be revaluing themselves. This is the program that  
17 has to always be available. And in those kinds of  
18 situations, we want to be able to rely on maturities  
19 rather than having to rely on sales wherever possible.

20 I think maturities are a much more reliable  
21 source of cash in a variety of markets than sales  
22 activity, where liquidity can come and go. Whereas,  
23 maturities, from a sovereign entity, are, as Lou just  
24 indicated, quite a reliable source of liquidity and are in  
25 a wide variety and wide spectrum of market environments.

1           COMMITTEE MEMBER YEE: So from a risk  
2 perspective, it sounds like this gives us a little bit  
3 more comfort, so currency risk being the major risk.

4           CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

5           That's right. The -- we hedge the -- out of the  
6 currency risk and the currency forward markets. So  
7 essentially we take out the currency -- the effects  
8 fluctuations. And the hedge to the forward currency  
9 markets are some of the largest and most liquid markets in  
10 the world. They performed without a hiccup basically  
11 during the financial crisis. They really are very  
12 reliable.

13           They're also huge. They happen to be the largest  
14 turnover markets in the world on any given day. So  
15 they're a very reliable source of liquidity.

16           The one other thing I would emphasize to for the  
17 entire committee related to this is this is a more  
18 significant change than we generally include in the second  
19 reading. And so if the Committee is interested in -- or  
20 needs more time to think about this potential change,  
21 we're happy to do a third reading and bring it back in  
22 May. I'm not suggesting that you have to do that, but  
23 I'll really leave that in the Committee's hands.

24           COMMITTEE MEMBER YEE: Okay. All right. Thank  
25 you, Mr. Chairman.



1 CHAIRPERSON JONES: Okay. Thank you.

2 Mr. Jelincic.

3 COMMITTEE MEMBER JELINCIC: As I raised on the  
4 briefing, broker/dealers are not allowed to do  
5 international debt in their lending portfolios -- their  
6 securities lending. Obviously, the SEC perceives some  
7 risk there. Why -- why do we think we should do it in our  
8 liquidity portfolio?

9 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: I  
10 think you might be referring to -- are you referring to  
11 the proposed change to the securities lending collateral  
12 rules, Mr. Jelincic?

13 COMMITTEE MEMBER JELINCIC: Yes, that would allow  
14 them to use international where they currently can't.

15 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: As  
16 I understand it, actually broker/dealers are actually  
17 allowed to do a wide variety of things with their lending  
18 collateral today. And the proposed rule -- the pending  
19 rule relates to the fact that I think the SEC is proposing  
20 restricting their ability to do that with client assets.  
21 They could still do that with their own assets, assets  
22 vested to the broker/dealer. But my understanding is, is  
23 that the proposed rule would restrict them from doing that  
24 with client stocks and bonds and using those as  
25 collateral.

1           And the obvious concern around that is this in  
2 rehypothecation strategies, which is what that's called  
3 when you relend collateral that you've received. In past  
4 financial crises, rehypothecation strategies are  
5 notoriously fragile, because wonce you've relent  
6 collateral, it is then relent, and many times undoing that  
7 daisy chain of lending in a stressed market environment  
8 can be very challenging. And all it takes is one failure  
9 along that chain of rehypothecation for that chain to come  
10 collapsing down, and for someone to be left needing  
11 liquidity, and not able to achieve it.

12           To be clear, we're not -- this is not lending  
13 collateral. This is actually our Liquidity Program. And  
14 so this is just expanding where we can put that Liquidity  
15 Program into additional sovereign entities, not just the  
16 treasury sovereign, which is what we can do today, but  
17 expanding it to say include Japan, the UK, Euro bonds,  
18 hedged back into the dollar.

19           COMMITTEE MEMBER JELINCIC: And so the -- what's  
20 the risk that -- well, I guess you described the risk is  
21 they can't get re -- basically redone, which is the risk  
22 that the SEC is trying to avoid.

23           CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

24           Yeah, the SEC's proposed rule -- it's not yet --  
25 it has not yet been approved has proposed a rule to

1 restrict broker dealers from relending their client's  
2 assets when it's used for say securities lending purposes.

3 COMMITTEE MEMBER JELINCIC: Okay.

4 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: So  
5 we predict -- and this is a good question to ask Mr.  
6 Crowley, perhaps when he's on the phone next month,  
7 regarding what the status is of that rule. We expect that  
8 until there are -- is a complete sort of SEC Commission  
9 itself is restaffed, that that bill will -- that rule will  
10 probably remain in limbo.

11 COMMITTEE MEMBER JELINCIC: Okay. And one of the  
12 other things that was said is that part of the reason for  
13 this is to increase capacity, and were we to handle the  
14 cash we got. That certainly raises the issue of have we  
15 overallocated to cash, if we actually have to go looking  
16 for new markets to help park it. Not part of the policy,  
17 but I think part of the issue that needs to be addressed.

18 In the policy itself, and I'm working off  
19 attachment 2, because it's got the strikeouts and  
20 underlines. But on page 17, 165 of the iPad, the first  
21 line, fourth paragraph, there -- there's a typo. I just  
22 thought I'd point it out. You missed a space.

23 The --

24 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

25 Thank you for your detailed review.

1           COMMITTEE MEMBER JELINCIC: On 18 of 100, the  
2           strikeout is actually kind of interesting. We're striking  
3           out that it may be prudent to retain investment in an  
4           actively managed portfolio, but -- or restrain in active,  
5           but not in passive. Why did we chose to strike that?

6           CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

7           You'll give us a moment. We're just finding the  
8           page.

9           COMMITTEE MEMBER JELINCIC: Okay. It's 166 of  
10          the iPad, 18 of 100 in attachment 2, and it's one -- in  
11          the middle.

12          INVESTMENT DIRECTOR CROCKER: yeah, that was one  
13          of two sentences that -- Kit Crocker, CalPERS staff,  
14          excuse me -- that we thought was going to, well, in this  
15          case a greater level of detail than the rest of the  
16          policy. So it seemed to not fit. We don't disagree with  
17          it. We just thought it didn't rise to the level of  
18          investment policy statement.

19          COMMITTEE MEMBER JELINCIC: Okay. I at least  
20          understand it.

21          On the next page, 19 of 100 -- and I just lost my  
22          iPad number -- 167 of iPad. Up in two, the divestments  
23          will be reviewed at five-year intervals. And I would like  
24          to suggest that it be at least five year intervals,  
25          because there -- and I think that was actually more

1 reflective of the discussion, because stuff happens.

2 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

3 Yeah, I think that's a --

4 INVESTMENT DIRECTOR CROCKER: Kit Crocker again.

5 Totaly agree. In fact, I picked that up over my weekend  
6 reading myself. So thank you.

7 COMMITTEE MEMBER JELINCIC: I had one other one,  
8 but I can't find it right now, so I will go back into the  
9 queue, if I find it. Thank you.

10 CHAIRPERSON JONES: Okay. Mr. Slaton.

11 VICE CHAIRPERSON SLATON: Thank you, Mr. Chair.

12 I want to go back to the sovereign wealth issue  
13 again just to --

14 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

15 Sovereign bond.

16 VICE CHAIRPERSON SLATON: Sovereign -- yeah,

17 those investments -- and I want to make sure that -- I

18 think just to make sure everyone is clear that this

19 requires us to change the credit rating thresholds, if I

20 understand it correctly, slightly down. Still investment

21 grade, but slightly down. And that -- but because of the

22 term that we're investing in, shorter term, that even

23 though the original issue may have a lower credit

24 rating -- sightly lower, because of its longer term, that

25 the portion that we would be acquiring would be an

1 equivalent, if it were to be rerated equivalent with the  
2 top ratings we have. Am I correct in that or not?

3 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: We  
4 intend to use the exact same short-term ratings for these  
5 new sovereign investments, as we would use in the current  
6 policy.

7 VICE CHAIRPERSON SLATON: Okay. I thought there  
8 was an adjustment down to BBB plus. There was an  
9 adjustment somewhere in here.

10 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: For  
11 the longer-term bond ratings. But yeah, for the term that  
12 we're talking about, the 15 month and less term that's  
13 consistent with -- allowed in the Liquidity Program, it's  
14 exactly the same rating.

15 VICE CHAIRPERSON SLATON: Okay. So are those --  
16 are we buying issues that are already partially -- in  
17 other words, that we're originally issued for a longer  
18 term, and now have a shorter remaining term on them --

19 INVESTMENT DIRECTOR ZAHORAK: That is

20 VICE CHAIRPERSON SLATON: -- in order to get over  
21 the 15 months?

22 INVESTMENT DIRECTOR ZAHORAK: That is a --

23 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

24 So that's a possibility.

25 INVESTMENT DIRECTOR ZAHORAK: -- that a bond that

1 was original issued as a five-year bond and rolls down,  
2 and now it's -- you know, let's say it was issued five  
3 years ago, and it has --

4 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: A  
5 year left.

6 INVESTMENT DIRECTOR ZAHORAK: -- one year left,  
7 we could potentially buy that in the marketplace, yes.

8 VICE CHAIRPERSON SLATON: Okay. So my  
9 question --

10 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: As  
11 long as it's rated A2P2.

12 VICE CHAIRPERSON SLATON: Oh, even the original  
13 five year had to be rated that. So did I miss something  
14 that wasn't there, an adjustment in the ratings to  
15 slightly lower ratings in order to buy a longer bond that  
16 has a short time left on it, but wouldn't be rerated?

17 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:  
18 Yeah, I think that's accurate. There are -- the.  
19 longer-term rating, as you've seen is actually -- it's  
20 investment grade and up. It's not A minus A3 or A minus.

21 VICE CHAIRPERSON SLATON: Right.

22 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:  
23 However, we're buying bonds that are within the  
24 last 15 months of their maturity spectrum. And in that  
25 spectrum, they would have to be A2P2, F2, or the

1 equivalent.

2 VICE CHAIRPERSON SLATON: Okay. Well, it's the  
3 words, "Or the equivalent", so does that mean they -- that  
4 that's a different rating scheme or are you talking about  
5 if it were to be rerated in that last year, it would get  
6 that same top rating?

7 INVESTMENT DIRECTOR ZAHORAK: We would -- we  
8 would only buy a security if, at the point in time of  
9 purchase, it would have to meet our minimum ratings  
10 requirements.

11 VICE CHAIRPERSON SLATON: Okay. And are we  
12 changing that minimum rating requirement or not?

13 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: No,  
14 not within the time period that these bonds are allowed to  
15 be purchased.

16 VICE CHAIRPERSON SLATON: Okay

17 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:  
18 It's the same.

19 VICE CHAIRPERSON SLATON: All right. Thank you.

20 CHAIRPERSON JONES: Okay. Thank you.

21 Yeah, I have a question. I was looking at the  
22 Board's consultants opinion letters. And three out of the  
23 four made reference to the lack of procedures, matrices,  
24 evaluation thresholds, et cetera before they could offer,  
25 in one case, a final opinion. So since it seems to be an



1 issue with all three consultants, so could you comment on  
2 that, when they would be developed and when they would be  
3 implemented.

4 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

5 Yeah, I will start the commentary, Mr. Chairman,  
6 but I'll again ask Wilshire to provide their commentary.  
7 Essentially, what I believe you're referring to is the  
8 fact that we've now incorporated this Governance and  
9 Sustainability Principles into the actual investment  
10 policy.

11 And so because of that, your consultants are now  
12 required to provide opinions on how to measure the  
13 effectiveness of those governance and sustainability  
14 policies on the actual investment practice. And that --  
15 as we've discussed in even just last month, that's a  
16 fairly nascent area in terms of how to measure that -- the  
17 impact of that on investments.

18 Wilshire has obviously done that for many years  
19 with our Focus List Program. And that is very clearly  
20 measurable, because it's a fairly small universe of  
21 stocks, and you're just talking about the G of the ESG.  
22 And we take a clear focus that, and they're able to  
23 measure the differential performance of the short list of  
24 stocks we include in the focus list, versus the broader  
25 portfolio.

1           Now that we've built the Governance and  
2 Sustainability Principles right into the investment  
3 polity, it now influences, not just the focus list, but  
4 all of the activities of the program. And measuring that  
5 in a meaningful and quantitative way is really -- that's  
6 sort of the Holy Grail frankly. And that's not something  
7 that I think CalPERS, or virtually anyone else, has  
8 completely figured out how to do.

9           And so that's -- I believe that's what Wilshire  
10 is referring to in their opinion letter. And that's  
11 definitely a focus within the five-year plan is to look at  
12 exactly how to measure the effectiveness of that and bring  
13 that back to the Committee.

14           CHAIRPERSON JONES: Okay. Yeah, but it was -- it  
15 made reference to also our real estate and our private  
16 equity.

17           CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

18           That's right, because it's now built throughout  
19 the program.

20           CHAIRPERSON JONES: Okay. Okay.

21           CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

22           Would you like to Comment, Rose, on that?

23           MS. DEAN: Rose Dean, Wilshire. No, I think --

24           CHAIRPERSON JONES: Pull your mic.

25           MS. DEAN: I'm sorry.

1           CHAIRPERSON JONES: That's okay.

2           MS. DEAN: I think Wylie captured the essence of  
3 our opinion. I think we are in agreement, as we mentioned  
4 in last -- in our last opinion letter regarding these  
5 sustainably principle -- Sustainability Principle is that  
6 we're in agreement that this aligns the interests of  
7 CalPERS with the focus on long-term sustainability of the  
8 program.

9           But as Wylie mentioned, this is something that  
10 we -- we and other consultants going forward will figure  
11 out how exactly to quantitatively measure this.

12           CHAIRPERSON JONES: Okay. Okay. Thank you.  
13 We'll look forward to you coming back on that item then.

14           Okay. Mrs. Mathur. Before I call on Mrs.  
15 Mathur, we do have four individual that would like to  
16 speak to this item before we entertain a motion.

17           So with that, Ms. Mathur.

18           COMMITTEE MEMBER MATHUR: Thank you. So just to  
19 follow up on your comments, Mr. Chair, will -- once the  
20 procedures are all finalized, will we have an opportunity  
21 for consultants to come back and opine at that point?

22           CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

23           Yeah, absolutely.

24           COMMITTEE MEMBER MATHUR: Yes. Okay. Thank you.

25           So my question is really about the attachment --

1 appendix 1 of attachment 2, the Governance and  
2 Sustainability Strategy, the frequency with which reports  
3 will come back to this Committee.

4 I note that it is a top line item, but then it's  
5 also a line item under each of the asset classes to come  
6 back at least annually on Governance and Sustainability  
7 Strategy and coherence or with -- of the Investment  
8 Program Strategy with that strategy.

9 And so I'm wondering if that means that we will  
10 have five reports a year or is that all anticipated to be  
11 one consolidated report. I think once a year is not --  
12 probably not frequent enough. But if it's -- it each of  
13 those items come back annually, then maybe that is  
14 sufficient. So --

15 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: I  
16 think the idea was that we would do a consolidated report  
17 across the program at least once a year, much like we did  
18 last month. And then in addition, each of the individual  
19 investment programs when they bring their annual program  
20 review to you, we generally do that in the fall.

21 Each of those programs would also include  
22 specifics on their activities in the governance and  
23 sustainability area.

24 COMMITTEE MEMBER MATHUR: Okay.

25 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: So

1 through that effort you would get at least one  
2 consolidated total fund view of that, how we're doing on  
3 our five-year plan. And then within each -- within each  
4 asset class, you'd get additional details when they come  
5 back in the fall. That's the -- that's what was  
6 anticipated and incorporated into the policy.

7 COMMITTEE MEMBER MATHUR: Okay. And additive to  
8 that is -- are any reports on proxy voting and other sort  
9 of --

10 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:  
11 Absolutely. That's right. The typical --

12 COMMITTEE MEMBER MATHUR: -- corporate governance  
13 activities, reports we might get --

14 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: The  
15 typical reporting we do, you know, several times a year on  
16 how our proxy season is going.

17 COMMITTEE MEMBER MATHUR: Okay. Thank you.

18 CHAIRPERSON JONES: Mr. Bilbrey.

19 COMMITTEE MEMBER BILBREY: Thank you, Mr. Chair.

20 I just wanted to ask further on the question from  
21 Mr. Jones and Ms. Mathur. I don't think I caught it. How  
22 long will it be before that comes back to us, regarding  
23 the consultants letters and all.

24 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: In  
25 terms of how we are going to be measuring and reporting on

1 the quantitative impact of our governance and  
2 sustainability strategy, Mr. Bilbrey?

3 COMMITTEE MEMBER BILBREY: Um-hmm.

4 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: I'd  
5 like to be able to pin it down to a date. I'm not sure  
6 I'm entirely comfortable doing that. It's definitely part  
7 of our five-year strategic plan to do that. And we're --  
8 we're roughly a year into that. Your Committee approved  
9 that in August.

10 COMMITTEE MEMBER BILBREY: So hopefully less than  
11 five years.

12 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

13 Yeah. What we actually anticipate doing is  
14 probably doing that sort of -- there are areas where that  
15 quantification process is perhaps a little bit more  
16 straightforward, and we can bring those back as we  
17 complete it, rather than sort of in one fell swoop.

18 COMMITTEE MEMBER BILBREY: Okay. Well, for me,  
19 sooner than later is better.

20 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

21 Understood.

22 CHAIRPERSON JONES: Mr. Jelincic.

23 COMMITTEE MEMBER JELINCIC: I found my place.

24 On, again, attachment 2, page 32 of 100, 180 of  
25 the iPad, fourth block down, leverage. One of the things

1 that I do not recall -- I won't say it won't happen,  
2 because my memory is not perfect, but I don't recall  
3 getting a report on subscription leverage, you know,  
4 subscription debt that gets taken on in various funds.  
5 And yet, it's obviously recourse to the System.

6           So where does that get reported? And in a --  
7 again, as part of the leverage report, where do we see the  
8 leverage within the private equity portfolio? I mean, if  
9 Company A, you know, carries a billion dollars worth of  
10 debt, you know, it's not directly to us, but it clearly is  
11 within our portfolio. And where does that get reported?

12           CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

13           Good question, Mr. Jelincic.

14           Currently, twice a year, we include with the  
15 total fund review package, which comes to you in February  
16 and August, we include a report of all of the leverage  
17 that we -- we believe we are undertaking, both direct  
18 leverage that CalPERS makes decisions on, as well as  
19 estimates of the leverage that are -- that are included  
20 and embedded within our investments.

21           And that is a part of the risk management report  
22 that's -- that we provide to you twice a year. Now,  
23 subscription financing is a fairly small component, so  
24 it's actually rolled up into other numbers I believe, but  
25 I'm happy to provide that link to the Investment

1 Committee. But you'll see it in both the August and  
2 February agenda items.

3 COMMITTEE MEMBER JELINCIC: Okay. And as I said,  
4 I don't remember it being there, but that doesn't mean  
5 that it wasn't.

6 On page 34, number -- down at the bottom, number  
7 8, we're striking, which requires the consultants to do a  
8 review of the subcomponents of the program. And why are  
9 we striking that?

10 INVESTMENT DIRECTOR CROCKER: And that is the  
11 provision that we considered duplicative of other -- other  
12 reporting obligations, specifically for the general  
13 pension consultant.

14 COMMITTEE MEMBER JELINCIC: Okay. But this is  
15 specific to the private asset consultants and their  
16 specific programs. And obviously the -- you know, the  
17 subcomponents of the program are kind of key, because  
18 that's kind of what rolls up to the program.

19 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

20 Just to be clear, we definitely anticipate  
21 continuing to provide opinions to the Committee on say how  
22 our infrastructure investments are doing, or our -- real  
23 estate investments are doing within the Real Assets  
24 Program.

25 And so that might be language that we need to



1 alter to make sure that that's clear, that even if  
2 we -- even if we're eliminating say a subprogram report,  
3 we definitely will continue and look for -- for reporting  
4 around the individual components of the asset classes.

5 INVESTMENT DIRECTOR CROCKER: And it -- I'm  
6 sorry, if I can -- may add?

7 COMMITTEE MEMBER JELINCIC: Please.

8 INVESTMENT DIRECTOR CROCKER: Kit Crocker,  
9 CalPERS staff. If you look at box number 9, that is where  
10 most of the duplication was. So I think we are missing  
11 the word "subcomponent", but the other aspect of that  
12 review were in there.

13 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:  
14 That's right.

15 INVESTMENT DIRECTOR CROCKER: So we felt it was  
16 confusing to have the two side by side. And, I'm sorry,  
17 it wasn't actually the general pension consultant, which  
18 was a different issue.

19 COMMITTEE MEMBER JELINCIC: So --

20 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:  
21 So if we include the word "sub-program" in  
22 section 9, I think -- I think we we would satisfy your  
23 question.

24 COMMITTEE MEMBER JELINCIC: I think you would.  
25 And then on 36 of 100, 184 of the iPad,

1 Investment Office Responsibility. The -- one of the  
2 things that is missing there, I think it's understood, but  
3 it's actually missing, is that those procedures and  
4 guidelines and sub-program guidelines be consistent with  
5 the Board-adopted policies.

6 And I raise that, because we have -- we have had  
7 cases where the procedures essentially undercut the  
8 policy. And so I think it's important to have language  
9 that it's got to be consistent with the policy.

10 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

11 You're referring section 4, Mr. Jelincic?

12 COMMITTEE MEMBER JELINCIC: Yes.

13 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: I  
14 think that language is fine. We're happy to add that.

15 COMMITTEE MEMBER JELINCIC: Okay.

16 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

17 Consistent with Board-approved policy.

18 COMMITTEE MEMBER JELINCIC: And those were the  
19 issues I had.

20 CHAIRPERSON JONES: Okay. Thank you.

21 Mr. Slaton.

22 VICE CHAIRPERSON SLATON: Thank you, Mr. Chair.

23 All right. I found where I was looking on the  
24 sovereign securities. So if we go to attachment 2, page  
25 56 of 100, 204 on the iPad. So we've added the line for

1 sovereign securities at the time of purchase. We've  
2 excluded it in the first section. So the short-term  
3 ratings are the same, but the long-term ratings there are  
4 have been lowered. And so that's where I thought that  
5 what we're doing is buying a -- the 15 months or less of a  
6 long-term instrument that was already rated BAA1 or BBB  
7 plus by the other two agencies.

8           And yet, if it were to be rerated, which doesn't  
9 typically happen, it would be come in -- it would be an  
10 equivalent to the A2P2F2.

11           CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

12           Um-hmm.

13           VICE CHAIRPERSON SLATON: So am I correct or not?

14           CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: You  
15 are correct. And my understanding of the way this was  
16 structured is that you'll see the note that's just beneath  
17 that table, where if a security is not rated, that staff's  
18 equivalent rating would apply.

19           So in those situations where, and Lou make sure  
20 that I'm staying on sides here. But that if -- if you buy  
21 a longer term rating and it's now within the 12 months,  
22 that it would have to be the equivalent of A2P2F2.

23           INVESTMENT DIRECTOR ZAHORAK: So a security that  
24 is A minus us, or A3, or BAA1, or BBB plus, those are in  
25 the category of A2P2. It's kind of like a range bucket.

1 The short-term ratings cover securities are rated on a  
2 long-term basis in those buckets. And so it would be part  
3 and parcel. They would have A2P2 ratings, which means  
4 they would qualify.

5 VICE CHAIRPERSON SLATON: I see. So why did we  
6 add the BAA1? Why did we replace the long-term ratings  
7 above with these ratings below?

8 INVESTMENT DIRECTOR ZAHORAK: Right. So as I had  
9 mentioned before, for the section on the top, it says all  
10 securities except sovereign securities, right? So those  
11 other securities, non-sovereign, would be corporate debt  
12 instruments or bank debt instruments, right?

13 VICE CHAIRPERSON SLATON: Correct, correct.

14 INVESTMENT DIRECTOR ZAHORAK: And as I mentioned  
15 before, historical default studies and historical default  
16 analysis shows that sovereigns have less frequency of  
17 defaults than those corporates. So on the margin, we're  
18 saying -- we're asking for permission in a sense to go  
19 down one notch in the long-term ratings, but it still  
20 qualifies within the short-term rating category.

21 VICE CHAIRPERSON SLATON: Okay. So a -- from the  
22 standpoint of default risk, a BAA1 is equal or better than  
23 an A2P2F2?

24 INVESTMENT DIRECTOR ZAHORAK: Of a  
25 corporation -- yes, that's correct.

1           VICE CHAIRPERSON SLATON: Of the corporate -- on  
2 the corporate side.

3           INVESTMENT DIRECTOR ZAHORAK: That's -- that is  
4 the reason we -- yes.

5           VICE CHAIRPERSON SLATON: Okay. Now, I got it.  
6 Thank you very much.

7           INVESTMENT DIRECTOR ZAHORAK: No problem.

8           CHAIRPERSON JONES: Okay. Thank you. So that  
9 ends the questions from the Board. And now we have four  
10 people from the public that would like to speak. And I'm  
11 going to call your names. And if you could come on down.  
12 And the first two names will come to the table with the  
13 mic, and the last two will sit right behind them. And you  
14 will be allowed three minutes to speak. And we have a  
15 clock right below the desk here, so you will be able to  
16 monitor your time, so that you conclude your remarks by --  
17 within the three-minute time frame.

18           So those individuals are Ben Vernazza, Lynne  
19 Nittler, Elizabethy Lasensky, and RL Miller.

20           Over here to my left, your right. First two,  
21 yes, come on up and have a seat, and state your name, and  
22 your organization.

23           MR. VERNAZZA: Am I first?

24           CHAIRPERSON JONES: Yes, anyone. Go ahead.

25           MR. VERNAZZA: My name is Ben Vernazza. And I'm

1 from Santa Cruz County. And I'm delivering a letter from  
2 my partner Stuart Frank, accredited investment fiduciary  
3 analyst, expert witness in many cases on fiduciary  
4 matters. And I believe you have this in front of you.  
5 I'm just going to read the first and the last paragraph.

6 "The California Public Employees' Retirement  
7 System IPS revision omits any mention of how uncompensated  
8 risk is to be managed through diversification". The last  
9 sentence, "By omitting a plan to manage uncompensated  
10 risk, this IPS causes every fiduciary responsible for risk  
11 management to be in breach of their fiduciary duties".

12 Second page. I've told you in the past several  
13 times that we've done a five-county study, which has been  
14 completed to see how much -- if they're prudently and  
15 reasonably reducing uncompensated risk. And that's the  
16 results of the amount of money that's left on the table.

17 With that knowledge, and knowing your asset  
18 allocation, I can tell you that you failed the test too,  
19 and that you left \$1.2 billion of uncompensated risk that  
20 wasn't eliminated on the table.

21 On the back of that second page is a reference to  
22 the study, and all the calculations we made. You'll see  
23 that your asset allocation is very close to Tulare  
24 County's. The result is a little bit different. They  
25 have a negative alpha.

1           The next page is get information edge as --  
2 versus flipping a coin. Remember Angelo Calvello, I  
3 suggest that you listen to what he told you at Rohnert  
4 Park last July.

5           Now, the last page is very familiar for you that  
6 are on the Governance Committee. And I will be talking to  
7 the Governance Committee this afternoon in a little more  
8 detail about this pyramid, which basically you start out  
9 with the law. And the law says that if you don't  
10 reasonably and prudently reduce uncompensated risk, you're  
11 in breach. That's what the third statement of trust law  
12 says, which is a guiding principle and guiding papers.

13           Thank you very much.

14           CHAIRPERSON JONES: Thank you.

15           Okay. Thank you for your comments.

16           MS. NITTLER: I'm Lynne Nitler, retired teacher.  
17 My health care is with CalPERS. I was one of the citizens  
18 who spoke to you in February regarding the divestment from  
19 banks financing the Dakota Access Pipeline. And it did  
20 seem that the Board was listening very closely and  
21 appreciated perhaps the public input at that time.

22           This time I want to address the policy you're  
23 looking at today with some revisions, including removing  
24 divestment as something that you would consider. And I  
25 want to address this piece. There's considerable evidence

1 that divesting is an ineffective strategy for achieving  
2 social or political goals, since the consequence is  
3 generally a mere transfer of ownership of divestment  
4 assets from one investor to another.

5 My point, the mere transfer is not really the  
6 point. CalPERS is the largest pension plan in the  
7 country. It means that you are a leader that others will  
8 follow your actions.

9 Divestment has worked as a strategy for moral  
10 good to end apartheid in South Africa, of which you were a  
11 part. To make a case against tobacco, again you were a  
12 part of that. Whether others buy up the stock that you  
13 divest from is not the point, it's whether you lead, and  
14 others will follow your lead. So divesting can be very  
15 powerful. There is now a movement building divesting from  
16 fossil fuels.

17 Then a second point, CalPERS -- I'm reading a  
18 quoted paragraph statement, "CalPERS wants companies in  
19 which it invests to meet high corporate governance ethical  
20 and social standards of conduct. CalPERS has a  
21 distinguished history of constructively engaging companies  
22 that fail to meet CalPERS standards of conduct.  
23 Consistent with our Investment Beliefs, CalPERS preferred  
24 approach to affecting changes and improvements in  
25 corporate behavior is through constructive engagement".



1           And I have to ask you would constructive  
2 engagement have helped end apartheid? Would constructive  
3 engagement have done anything to stop the use of tobacco,  
4 or the sale of tobacco, or your bringing in money to  
5 CalPERS accounts through the sale of tobacco products?

6           So here's the deal, when it comes to climate  
7 change, we have just this one planet earth. And if we  
8 spoil it, as we are doing in a variety of ways, that's it  
9 for us, for our children, for their children. There's  
10 really not anything to talk to them about, to, you know,  
11 make little negotiable points about. Is constructive  
12 engagement good enough for you, for CalPERS when there's a  
13 moral issue at hand. If you remove divestment, and say we  
14 can't deal with divestment, then when you're left with an  
15 immoral investment, you're stuck you're still going to  
16 earn money off of it.

17           CHAIRPERSON JONES: Your time is up, please.

18           MS. NITTLER: Okay. Thank you.

19           CHAIRPERSON JONES: Okay. Thank you.

20           MS. LASENSKY: Hello. Elizabeth Lasensky, Yolo  
21 Move on. A taxpayer from Davis. And I would like to  
22 comment further on your proposed change in divestment  
23 policy. My understanding of what you're trying to do is  
24 to, in fact, take the ability of the taxpayer and the  
25 public out of the ability to have a conversation with you

1 about our needs and requirements and our wishes.

2           And your second point that I'd like to talk about  
3 is that your voice would no longer be period if you  
4 divested from companies. Well, if ever there was a time  
5 that your voice was really needed was through the Dakota  
6 Access Pipeline fate, where indigenous peoples were  
7 literally attacked by police. And they were unarmed  
8 people who are protesting their rights to water and their  
9 sacred lands, where was your voice? You could have been  
10 there and you were not.

11           Earlier, somebody mentioned income inequality.  
12 Well, there is the issue of excessive CEO salaries. Are  
13 you using your voice to address that issue?

14           So those two issues to me are really important  
15 that you're taking the transparency away from the public  
16 and taxpayers, and you are not using your voice to the --  
17 to the way it's meant to be used, and so doesn't use that  
18 as an argument for not divesting.

19           Thank you.

20           CHAIRPERSON JONES: Thank you for your comments.

21           MS. MILLER: Good morning. Do I need to move to  
22 that seat?

23           CHAIRPERSON JONES: No, you're fine.

24           MS. MILLER: Okay. Thank you.

25           COMMITTEE MEMBER MATHUR: Just move the

1 microphone closer.

2 MS. MILLER: Sure.

3 Good morning. My name is RL Miller. I am the  
4 Chair of the California Democratic Party's Environmental  
5 Caucus, and the co-founder of a group Climate Hawks Vote.  
6 And I'm here to say that Jesse Unruh, who pioneered  
7 CalPERS activist shareholder strategy, would be horrified.  
8 You are deliberately choosing to shun the single most  
9 effective tool in an engaged shareholder's toolbox,  
10 divestment.

11 Item 5a can be summed up as no divestment ever  
12 follows testimony of more than four dozen angry and  
13 engaged Californians at your February meeting, all of them  
14 passionately critical of your investment in energy  
15 transfer partners, owner of the Dakota Access Pipeline.  
16 In a broader context, this policy bans divestment from any  
17 actor, no matter how nefarious during an ongoing national  
18 struggle in which pension funds, universities, and other  
19 fiduciaries are being asked by their stakeholders to  
20 divest their holdings in fossil fuels.

21 In 2015, the California Democratic Party passed a  
22 resolution, which I wrote, calling on CalPERS and CalSTRS  
23 to divest from fossil fuels. Yet, two of your largest  
24 individual stockholdings remain Exxon and Chevron. Your  
25 policy that you have proposed is in the -- I speak on

1 behalf California public employees, teachers, retirees, an  
2 and all Californians, when I say the extraordinary  
3 challenge of climate change to our planet demands an  
4 extraordinary response. And the occasional voluntary  
5 climate risk reporting that you have so far managed to  
6 coax falls far short of that extraordinary response.

7 By refusing engagement strengthened by the threat  
8 of divestment, and by refusing to even consider divestment  
9 on its face, the two largest and most influential pension  
10 funds in the country are engaging in a form of climate  
11 denial.

12 The fig leaf of shareholder engagement is  
13 demonstrated by your actions following the February  
14 meeting. After we all spoke in front of your office, we  
15 rallied, we demanded divestment, you wrote one letter  
16 asking that the pipeline be rerouted. That letter was  
17 written after the pipeline was 90 percent built and just a  
18 few short weeks before oil began flowing through sacred  
19 lands.

20 In other words, your effect had no -- your letter  
21 had no effect whatsoever, except as a -- insofar as it may  
22 have enabled you to tell riled up Californians that you've  
23 engaged. It was a meaningless gesture. You know it. We  
24 know it.

25 In the mean time, you negotiated amendments with

1 Assembly Member ash Cal roll the author AB 20, by  
2 negotiating amendments, I mean that that bill has been  
3 gutted. I'm here to ask you to divest from each of the  
4 investors in Energy Transfer Partners to significantly  
5 increase your engagement as asset owners, working --  
6 committed to working on behalf of all Californians, to  
7 threat -- to combat the threat of climate change to retain  
8 the ability to divest when the great moral challenges of  
9 our time demand it, and to tell you that the world is  
10 watching. Thank you.

11 CHAIRPERSON JONES: Thank you very much.

12 We -- Ms. Yee, you have additional questions  
13 or -- at this -- comments on this speakers or --

14 Just a minute. I'm sorry. Go ahead.

15 COMMITTEE MEMBER YEE: Thank you, Mr. Chairman.  
16 I do feel compelled to speak a little bit, if I could.

17 These are difficult issues. I will say that the  
18 policy that is before us is to encourage engagement. I  
19 don't it's outright ban on divestment. I mean, it's  
20 something that I think we have to look at on a  
21 case-by-case basis. I'm just going to remind -- and I --  
22 you and I have had many conversations about this. We wear  
23 a very completely different hat. We're fiduciaries on  
24 this fund. And our sole focus is how we're going to pay  
25 the benefits that our public sector worker and educators

1 have earned during their career. And it's becoming a  
2 tougher business to be in as you've heard this morning.

3 So just because you don't hear us or see us talk  
4 about what we do relative to engagement here in a public  
5 setting does not mean we're not doing it. In fact, we  
6 have a very robust engagement process, headed up by Dan --  
7 just -- I don't think is still Dan is still here --  
8 Bienvenue, and Anne Simpson and the team, that there is a  
9 very robust engagement process.

10 And I'm sorry on the Dakota Pipeline, actually  
11 engagement had started, but it didn't get communicated  
12 until after the Board meeting and that was unfortunate on  
13 our part.

14 But I do have to say I'm really at a loss here,  
15 because I question -- and I do push back a little bit,  
16 because I really want to know where are we going to  
17 find -- where are we going to find investments that are  
18 going to help us fulfill our obligation as fiduciaries?

19 That is our challenge each and every single day.  
20 It's not to say we disagree with the tenor of what's  
21 happening. And you all take your protests to the street,  
22 and I applaud you for that. We can't do that. We can't  
23 do that.

24 And so I'm just going to say we move together,  
25 hopefully respectfully, about how we're going to end up

1 being in a good place relative to -- I'm just a big -- as  
2 big of a champion on climate as you are, as I see it being  
3 very interconnected to everything we do, and -- but at the  
4 same time, we have to be responsible. We are moving.  
5 Tremendous partnerships with our other institutional  
6 investors on moving companies and engagement, not just  
7 here, but globally.

8 I've been involved in external efforts now to try  
9 to move that more quickly, but I just -- I just need to  
10 say this, we are fiduciaries of this fund, and our sole  
11 focus is, and must continue to be, how we are going to pay  
12 the benefits to our public sector workers and our  
13 educators who have earned these benefits during their work  
14 life.

15 And as I said, it's becoming more difficult, and  
16 I just ask that you -- and I'm glad you're here. Thank  
17 you for making the trip. Obviously, hearing the  
18 discussion, you get the sense of how difficult this has  
19 become. At the same time, I'm going to say that, you  
20 know, the policy before us does not prohibit divestment,  
21 but it highly encourages engagement. And we are making a  
22 lot of headway in engagement.

23 People do listen when CalPERS speaks up -- speak  
24 up. And we are engaging on all these fronts that you've  
25 just mentioned, but we don't have frankly the clout to do

1 it on our own, which is why we do it i npartnership. We  
2 have lots of collaborations that are going on, some we  
3 initiate, others initiated by other institutional  
4 investors, but we doing this work. And I just want to  
5 assure you, and the others who have testified, that just  
6 because you don't hear it in this public setting doesn't  
7 mean there's not a lot of work being done on it. And I  
8 will say there's been a lot more work done now than ever  
9 on this front.

10 So to the extent that we can be public about  
11 that, we will. Obviously, we don't give away strategies  
12 and public documents that we put out there, which is why  
13 you're probably unhappy with what's being printed as far  
14 as reports, but just understand we are not letting up on  
15 this. We also -- we also see the risks -- the huge risks,  
16 the climate really is going to place on this fund relative  
17 to the ability of companies to continue to create  
18 long-term value.

19 MS. MILLER: May I respond for one minute?

20 CHAIRPERSON JONES: No.

21 Yeah, go ahead.

22 MS. MILLER: Thank you. Thank you, Betty. I  
23 appreciate everything that you have done, and the fact  
24 that you've spoken about this very passionately. There  
25 are places where I feel that the activist shareholder



1 strategy makes a big difference. On income inequality, on  
2 top CEO pay, I feel that your strategy is very, very well  
3 thought out and well -- and well -- and is, in fact,  
4 having an impact. And I thank you for that.

5           The business of -- and I see that the activist  
6 strategy works when you are engaging a company that needs  
7 to be nudged to act a little bit better. The business of  
8 Exxon is to destroy our planet. I'm sorry to be blunt,  
9 but that is their business model. And nudging them to not  
10 destroy it quite as quickly isn't actually going to work.  
11 And that's why in the face of people that are deeply  
12 committed to a path whose business model is based on  
13 wrongness, the only thing that I contend you need to do is  
14 divest.

15           Thank you.

16           CHAIRPERSON JONES: Okay. Thank you very much.  
17 The -- what's the pleasure of the Committee? I'd be  
18 willing to entertain a motion to pass this. And if you  
19 make the motion, I would request that you include the  
20 three changes that Mr. Jelincic recommended putting "at  
21 least" in front of five, and adding "sub" to item number  
22 nine on that section. And I missed the third change that  
23 staff concurred that was appropriate.

24           CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: It  
25 was to add the phrase, "Consistent with our Board-approved

1 Investment Policies", to the IPPG's. And Kit is reminding  
2 me there was actually one additional change, which is to  
3 the public notice requirements that are specified in the  
4 divestment section or the -- of the policy. And that's to  
5 remove the 72-hour requirement, because we're actually  
6 already subject to a more stringent 10-day public notice  
7 requirement, and to -- so I think four changes.

8 CHAIRPERSON JONES: Okay. Thank you.

9 Mr. Lind.

10 COMMITTEE MEMBER LIND: Yeah. I do think this  
11 policy has been well thought out, well researched, and  
12 today well debated, I think. You know, and thanks to  
13 particularly Mr. Jelincic for identifying some good  
14 changes.

15 So I will make the motion that we adopt the  
16 proposed policy with the, I guess it's, four now  
17 identified --

18 CHAIRPERSON JONES: Yes.

19 COMMITTEE MEMBER LIND: -- amendments.

20 CHAIRPERSON JONES: Okay. Than you. Do I have a  
21 second?

22 COMMITTEE MEMBER HOLLINGER: Second.

23 CHAIRPERSON JONES: Second by Mrs. Hollinger.

24 Okay. All those in favor say aye?

25 (Ayes.)

1 CHAIRPERSON JONES: Opposed?

2 Hearing none.

3 The item passes. Thank you very much.

4 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

5 Thank you, Mr. Chairman.

6 CHAIRPERSON JONES: So then we will go to Item 6,  
7 Private Asset Class Roles and Benchmarks.

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

10 CHIEF INVESTMENT OFFICER ELIOPOULOS: Great.

11 Thank you, Mr. Chair. Why don't I kick this off as we get  
12 some of our logistics and movement of people into the right  
13 spots here. Seeing a lot of activity.

14 I'll be -- I'll be turning this over to Eric  
15 Baggesen fairly quickly here. This item is a continuation  
16 of many of the items that you've seen with respect to our  
17 ALM work, ending in the crescendo of a selection of an  
18 assets allocation as part of that process.

19 Today, we're taking a look at the private asset  
20 classes, roles, and benchmarks. And it's really broken  
21 into two sections. First, a look at our real assets  
22 portfolio, and roles, and benchmarks, and segments. And  
23 then second, a look at private equity.

24 I'll have more to say when we get to the private  
25 equity discussion. What I want to underscore in this item

1 I think it's very reflective of a few teams that have been  
2 very important to this Committee over the year -- over the  
3 years.

4           Number one, our Investment Belief framework has  
5 asked us to look at different ways to view the portfolio  
6 from both the long-term nature of our liabilities, and our  
7 abilities to invest over long periods of time, as well as  
8 the risks that -- that go with that investment strategy.

9           And the second theme, in combination with the  
10 Investment Belief work, was our look at factors, and risk  
11 factors in particular. And that has really spanned two  
12 ALM cycles now. It's hard to -- it seems like a flash of  
13 time.

14           And that work of looking at factors has  
15 translated over the years into a look at segments. And  
16 the two themes really merge here, in that if we want to  
17 have some more flexibility in the asset allocation  
18 decisions that this Committee will have, I think we need  
19 to take a look at how we're constructing our overall  
20 portfolio hierarchy. And in this case, we're coming with  
21 some ideas on how to do that, some recommendations that --  
22 during our discussions, and hopefully during the  
23 discussion here today, will show that we're collectively,  
24 the Investment Committee and ourselves, really trying to  
25 look deeply into how we organize ourselves and our assets,

1 in this case our private asset classes in a way that will  
2 give the Committee some meaningful choices during the  
3 asset allocation process rather than perhaps just the same  
4 old asset classes and asset allocation that the Committee  
5 has seen over the course of the last two asset  
6 allocations.

7           And part of the reason I'm stressing this is that  
8 in order to really present the Committee with some  
9 options, we believe having asset segments as part of that  
10 is crucial in having perhaps different ways of looking at  
11 the private asset classes will be important to set the  
12 Committee up for that during this ALM cycle.

13           With that, this is an information item, so it's  
14 meant to really layout our thinking, layout the pluses and  
15 minuses, the benefits and risks of these approaches, and  
16 to solicit feedback, so that we can bring back a final  
17 item to you on the timeline that we've all agreed to.

18           So with that, Eric, why don't I turn the item  
19 over to you and we'll be going.

20           MANAGING INVESTMENT DIRECTOR BAGGESEN: Sure.

21           Good morning, everyone. Eric Baggesen, Managing  
22 Investment Director for asset allocation and investment  
23 risk.

24           The item that we have in front of you today, as  
25 the Ted pointed, is an information item. We're not asking

1 the Committee to make any specific decision. A piece of  
2 that not asking to make any specific decision is the fact  
3 that we have not asked our Board consultants for specific  
4 opinion letters. But I would note that we, in essence,  
5 have representatives from Meketa, from PCA, and from  
6 Wilshire Associates here that could potentially answer any  
7 questions that you might care to ask them.

8 We also have a number of folks from -- that both  
9 the asset allocation team and from the private asset areas  
10 that are affected by this agenda item. So you've got  
11 Sarah Corr who is our interim after after Réal has left  
12 the organization, and we have Paul Mouchakkaa from the  
13 real asset area.

14 I would like to actually mention also that this  
15 work is the culmination of a team that was assembled from  
16 folks from across the Investment Office. So within the  
17 asset allocation team, we had the leadership of Alison Li  
18 and Diane Sandoval really working this entire discussion  
19 on benchmarks and asset class roles. This is a  
20 continuation of some of the discussion that we had with  
21 you at the January off-site. And if you recall, we had a  
22 fairly extensive discussion on segmentation. We were  
23 particularly focusing on the public asset classes during  
24 that January off-site.

25 That same work has moved on over into the private

1 asset areas. If you recall from the discussion that we  
2 had in January, we are looking at the different parts of  
3 the investment portfolio through the lens of the risk  
4 element that is the predominant risk element that affects  
5 the valuation of this fund.

6 And that predominant risk element is the growth  
7 related assets that are related to either economic growth  
8 or the equity markets, depending on how you'd care to  
9 define the term growth. That's the lens that we've used  
10 in assessing all of the different parts of the portfolio.  
11 That lens is helped to be determined by the work that John  
12 Cole led the organization through on portfolio priorities.

13 So if you recall, the effects of, one, the  
14 existing funded ratio on the portfolio, and the volatility  
15 that comes from these growth-related risks caused this  
16 issue of drawdown and the potential effect of an adverse  
17 outcome within that segment of the marketplace to be  
18 particularly important to the organization at this point  
19 in time.

20 I'd also suggest to you that this work on  
21 segmentation though is not a piece of work that is ever  
22 actually completed. Just like the portfolio priority work  
23 identified three dimensions that we would consider. So  
24 one was the effective drawdown on the portfolio. Another  
25 dimension related to income and the liquidity of the

1 portfolio and the cash flow posture of the portfolio. And  
2 another was the effect of all of these things on the  
3 employers, and trying to stabilize contributions,  
4 particularly at a level that the employers can actually  
5 afford to make. Those were three priorities that we sort  
6 of considered side by side.

7           And when we really attempted to understand which  
8 of those priorities became the most important at the  
9 moment, it's where this -- it's where this issue of  
10 drawdown and the sensitivity to the risk emanating from  
11 the equity portfolio really came to the forefront.

12           But I would suggest to you that as the portfolio  
13 and the plan evolves through time, potentially  
14 difference -- different priorities could rise up in  
15 importance. So, for example, if we were more fully funded  
16 in this plan, and we had an increase in the amount of  
17 money that we're spending every year on benefit payments,  
18 certainly that cash flow issue could rise in importance  
19 relative to, let's say, the priority around drawdown.

20           So I'm only trying to suggest that this work will  
21 have to continue. So a piece of all of this is trying to  
22 set up a mechanism and a process by which we assess the  
23 different parts of the portfolio and identify what's most  
24 relevant at that point in time.

25           So this can say nothing about what might be the



1 most relevant thing for CalPERS five years or ten years  
2 from now. So the segment work and the outcome of that, as  
3 it affects the asset allocation, could easily shift as  
4 time evolves basically, and you go through this work on  
5 these annual -- on these four-year rolling cycles.

6 --o0o--

7 MANAGING INVESTMENT DIRECTOR BAGGESEN: I'm going  
8 to jump around a little bit in the material. And I'm  
9 hopefully -- maybe Wylie could help us with the iPad  
10 pages, because I don't have all of the iPad pages noted.  
11 But one thing I just wanted to point out the different  
12 elements. This is our timeline around the asset  
13 allocation work that will be taking place through the  
14 course of this year.

15 As you'll recall in the segment discussion that  
16 we had in January, a piece of that discussion is going to  
17 have to also be held in closed session, and a piece of  
18 that discussion can take place obviously in open session,  
19 such as this part of the dialogue.

20 Through the middle of this year in the May/June  
21 time frame, we're going to need to be establishing capital  
22 market assumptions, which really will set the base line of  
23 our market expectations for the parts that we would  
24 incorporate in the asset allocation work.

25 So our objective today is to get some feedback

1 from this Committee, and the degree of either agreement to  
2 move in the direction of the segmentation work, or to not  
3 move in that direction, because that will help us clarify  
4 what we're doing around the setting of the capital market  
5 assumptions. And that work kind of really needs to get  
6 started probably in the month of May, and will involve all  
7 of your consultants, as well as whatever information we  
8 can collect from the marketplace.

9           So as I said, the feedback that we get from you  
10 is actually an important -- an important aspect of this.

11                           --o0o--

12           MANAGING INVESTMENT DIRECTOR BAGGESEN: Ted  
13 mentioned the term "factors". And that was another piece  
14 of information that we went through, if you remember  
15 Lionel Martellini from EDHEC and John Mulvey basically  
16 from Princeton University talked some about the factors,  
17 and the evolution to try to move towards factors.

18           I think what came out of that piece of  
19 information was that, one, our expectation that there was  
20 a homogenous set of factors that were equally useful to  
21 describe our liability structure and the performance of  
22 our assets did not actually exist.

23           So the discussion that, in particular Lionel led  
24 us through, emphasized the idea of economic regimes as an  
25 element to potentially tie together the liability

1 structure and the assets that we invest in to try to  
2 defease those liabilities.

3 I would suggest to you that the closest thing  
4 that we're going to get towards factors at the moment are  
5 the five terms that the staff has settled on in an effort  
6 to try to clarify the role statements for the different  
7 parts of the marketplace that we participate in. Those  
8 five statements, three of which you see here in relation  
9 to the real asset area, are diversification, income,  
10 inflation. The two that you don't see are growth and  
11 liquidity.

12 We have tried to drive clarity into our role  
13 statements for the various parts of the market that we  
14 participate in simply because we oftentimes actually had  
15 conflicting statements within these role statements.

16 So, for example, incorporated in the real asset  
17 role statement of the past was the concept of growth. So  
18 you literally had a statement on one hand that would  
19 emphasize participation in growth, and then you would also  
20 have a statement that actually emphasized diversification.  
21 Given that the predominance or the preponderance of our  
22 risk comes from growth, literally that conflicts with the  
23 idea of diversification.

24 So we're trying to eliminate these potentially  
25 conflicting statements that can cause actually a lot of

1 confusion and a migration for the various asset classes  
2 into parts of the portfolio that actually take them away  
3 from the preponderant characteristics that we're really  
4 trying to emphasize in our asset allocation work.

5           So a big piece of this has been to go down  
6 through all the different teams within the Investment  
7 Office, and really try to clarify what are the elements  
8 that we really are trying to extract in very simple  
9 terminology. Now, we've tried to eliminate some of the  
10 more aspirational language and all kinds of things that  
11 honestly just creates a lot of confusion and dilutes the  
12 concept of actually focusing on the things that are most  
13 important.

14           So for our real asset area, we've got these three  
15 statements that are the core elements of the role that we  
16 expect these assets to play in the portfolio:  
17 diversification, income, and inflation. And inflation  
18 sensitivity is obviously a bit of a tricky one.

19           We've got two specific recommendations in the  
20 real asset area. One is actually consolidating segments.  
21 So currently, our real asset area has specific call-outs  
22 to real estate, forestland, and the infrastructure area.  
23 A piece of the work that Diane and Allison led is to  
24 really focus on where do we actually have enough potential  
25 allocation to actually make a difference in the portfolio.

1           So this organization has been pursuing  
2 infrastructure investments for basically, I'm going to  
3 say, seven or eight years at this point. I think  
4 infrastructure was first included at least two iterations  
5 ago in the asset allocation.

6           Right now, our exposure to infrastructure is  
7 slightly over one percent. I would suggest to you that  
8 that is not a material number, and actually driving the  
9 outcome to the CalPERS portfolio. So it's not that we  
10 don't have a utility for infrastructure, we do, but we  
11 have not arrived at a business model that allows us to  
12 gain sufficient traction in that marketplace to be  
13 actually having an outcome in the overall asset allocation  
14 for CalPERS at this time.

15           And again, I need to emphasize everything I say  
16 is relevant at this time. Whoever says this in front of  
17 you again a couple three or four years from now, if it's  
18 me or someone else, there may be other statements that are  
19 relevant at that time, so that this is -- has to be n  
20 evolving piece of work.

21           Forestland, I think you're all familiar with the  
22 challenges we've had there. So our recommendation is to  
23 basically fold infrastructure and forestland into a single  
24 real asset allocation.

25   --o0o--

1           MANAGING INVESTMENT DIRECTOR BAGGESEN: This is  
2 particularly supported by the fact that the real asset  
3 team are using exactly equivalent expectations and  
4 characteristics as they attempt to negotiate a structuring  
5 of transactions in these different parts of the  
6 marketplace.

7           So we're literally using the same kinds of  
8 expected return, same kinds of risk profiles,  
9 volatilities, whatnot as they basically go forward and try  
10 to participate in these markets. That also, to our mind,  
11 in the asset allocation area, reinforces the idea that  
12 these things are not discrete enough to warrant being  
13 called out as a separate portion of the asset allocation.

14                           --o0o--

15           MANAGING INVESTMENT DIRECTOR BAGGESEN: The other  
16 recommendation that we have for real assets is to migrate,  
17 for the purposes of asset allocation and strategic asset  
18 allocation, from the NCREIF ODCE benchmark to the MSCI IPD  
19 benchmark. This recommendation is based on the simple  
20 fact that MSCI is -- one, it's potentially the largest  
21 benchmark provider on the planet. MSCI is also the  
22 provider of our risk system. So there's a tremendous  
23 amount of work that actually needs to take place to  
24 migrate information from NCREIF and try to assimilate that  
25 into our overall risk system to understand what's

1 happening from the real asset exposures, in concert with  
2 all the rest of the parts of the CalPERS portfolio.

3           So we think that NCREIF is a perfectly fine  
4 benchmark. And to the extent that the real asset team  
5 takes value from the relationship they have with NCREIF,  
6 that's perfectly fine to maintain that.

7           But from the perspective of what we do for the  
8 total fund, and the ability to assimilate information into  
9 our fund-wide risk system, our recommendation is to  
10 migrate to the MSCI IPD data, which much more seamlessly  
11 comes into the risk platform that we use to try to  
12 understand everything that's going on in that portfolio.  
13 The two streams of information are virtually reidentical.

14                               --o0o--

15           MANAGING INVESTMENT DIRECTOR BAGGESEN: And  
16 that's what you see on this chart. These lines represent  
17 three different kinds of returns. They represent an  
18 appreciation return, an income return, and a total return.  
19 And the fact that the MSCI IPD index and the NCREIF ODCE  
20 Index are virtually identical. We're not changing the  
21 components that get used in the assessment. What we're  
22 trying to do is basically change the ease with which  
23 question move into a total fund point of view.

24           And I think I would just stop at this moment and  
25 see if you have any questions in relation to the

1 recommendations that we have for real assets, and answer  
2 those maybe before we move on to private equity.

3 CHAIRPERSON JONES: Okay. Yes, Mr. Bilbrey

4 COMMITTEE MEMBER BILBREY: Thank you, Mr. Chair.

5 So consolidating the three parts into one, we  
6 would still have the transparency though to see each one  
7 separately in some sort of form of reporting. And  
8 secondly -- that is a question sorry.

9 And secondly, in forestland, if I looked at the  
10 last report we just got in this -- I think it's from  
11 February, it's about a half a percent I think we have in  
12 there right now or something, 0.6.

13 Tell me why it's good that we continue to have  
14 this in the portfolio, because I -- since I've been on the  
15 Board, I have not seen anything significant that is done  
16 to add value.

17 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah,  
18 that's an interesting question. So let me just attack  
19 this concept of consolidation from two dimensions and see  
20 if I answer your question, Mr. Bilbrey.

21 One, we anticipate that we'll provide exactly the  
22 same kinds of transparency around all these different  
23 parts of the portfolio. So you'll be able to see the same  
24 kind of reporting that you see right now. It's really for  
25 the purposes of the asset -- setting the asset location



1 that we're recommending consolidation of that.

2 In relation to forestland, forestland has been  
3 very problematic for us to be truthful with you. It's --  
4 CalPERS has a major concentration in the forestland area  
5 of the structure of our relationship with the managers and  
6 the partners that manage that real estate do not give us a  
7 lot of flexibility in trying to restructure those assets.  
8 And this continues to be a focus of the real asset team to  
9 think about how on earth do they basically change the  
10 structure of that transaction.

11 But as you well know, once CalPERS enters into a  
12 contract, we cannot unilaterally change the terms of that  
13 contract. So that creates some of the tension in this.  
14 We -- from the perspective of asset allocation and  
15 forestland in general, we do not believe that forestland  
16 ever will represent sufficient liquidity or sufficient  
17 bandwidth to be a meaningful part of an asset allocation  
18 structure for a plan the size of CalPERS.

19 This is where the scale of CalPERS actually  
20 causes us some real constraints as far as what we can  
21 invest in, and what those investments can actually do  
22 within the asset allocation construct.

23 Does that answer your question, sir?

24 COMMITTEE MEMBER BILBREY: Yes.

25 MANAGING INVESTMENT DIRECTOR BAGGESEN: I'd make

1 one other quick comment also about the consolidation of  
2 forestland and infrastructure into the real asset team.  
3 What a lot of this is predicated on is really trying to  
4 change the point of view and the interaction of the  
5 CalPERS staff within the various teams. We're trying to  
6 get people within the Investment Office to focus on the  
7 things that are the most important to the outcome for the  
8 organization, and really try to actually share and work  
9 more across the different discrete small buckets that were  
10 contained within the program. So this consolidation  
11 actually fits with what Paul is trying to do with that  
12 team, which is trying to basically get people to interact  
13 together and focus on the commonalities of what they do,  
14 and rather than basically distinguishing themselves on the  
15 differences.

16           And I would suggest to you that those differences  
17 are usually of smaller order of magnitude than the  
18 commonalities. So a piece of this is actually trying to  
19 change the culture of the Investment Office. And that's  
20 certainly going to be an element when we get into the  
21 private equity recommendations as well. And I don't know,  
22 are there more questions, Mr. Jones?

23           CHAIRPERSON JONES: Mr. --

24           COMMITTEE MEMBER BILBREY: Let me just a little  
25 further. So if I'm hearing you correctly, we can't get

1 out of forestland at all?

2 MANAGING INVESTMENT DIRECTOR BAGGESEN: Well, I  
3 don't know if I would make that statement. I think that's  
4 a statement, or a set of conditions, that Paul would be  
5 the right person to talk about.

6 COMMITTEE MEMBER BILBREY: Okay.

7 MANAGING INVESTMENT DIRECTOR BAGGESEN: But  
8 certainly from the perspective of the strategic asset  
9 allocation, forestland is small enough that it just  
10 doesn't warrant a unique call out from our perspective.

11 CHAIRPERSON JONES: Paul

12 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Good  
13 morning. Paul Mouchakkaa, Managing Investment Director  
14 for real assets. It's no secret the forestland portfolio  
15 you see the quarterly returns or semi-annual returns,  
16 excuse me. And it has been a struggle. The staff for the  
17 past two to three years has been working very hard to  
18 restructure that portfolio. We've done it through a  
19 number of ways, but it's very important to highlight that  
20 it's been an area where we've had a strategic review of  
21 the forestland portfolio, in concert with asset  
22 allocation.

23 We're still at the point of reviewing what we're  
24 going to do from a go-forward perspective, but from the  
25 look-back perspective in terms of what our holdings are.

1 We have to optimize our returns from that perspective, and  
2 always -- it still may not be a -- I think it's about  
3 three-quarters of a percent, but it still is, in terms of  
4 dollars, one and a half to two billion dollars of equity  
5 in the fund. And we are very mindful to manage that to  
6 the best possible go-forward solution for CalPERS.

7 COMMITTEE MEMBER BILBREY: Thank you.

8 CHAIRPERSON JONES: Okay. Ms. Mathur.

9 COMMITTEE MEMBER MATHUR: Thank you. I have a  
10 few questions. Would this consolidation mean that the  
11 real assets team would be more focused on choosing between  
12 opportunities within these three subgroups --  
13 subcategories, so they'd be looking at it more across all  
14 of those three. And so at -- so I see you nodding, so  
15 that's at a --

16 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yes. No.  
17 Absolutely -- there is absolutely no intent to potentially  
18 stop investing in infrastructure or potentially even  
19 forestland, if there's an attractive transaction to be  
20 had. So, yes, I would suggest the answer to your question  
21 is yes.

22 COMMITTEE MEMBER MATHUR: And clearly, this Board  
23 and the public are very interested in CalPERS investing in  
24 Infrastructure. So I want to be assured that this does  
25 not -- this does not translate to a diminution in our

1 interest in pursuing infrastructure and the sort of  
2 vigorousness with which we will do so.

3 MANAGING INVESTMENT DIRECTOR BAGGESEN: No, I  
4 would suggest that's exactly correct. We find many, many  
5 attractive attributes to infrastructure. We just simply  
6 need to arrive at the business model that will actually  
7 allow us to get a meaningful amount of exposure.

8 COMMITTEE MEMBER MATHUR: Yeah. I recognize that  
9 there have been a lot of challenges in the marketplace  
10 with respect to infrastructure. A couple of other  
11 questions. One of the things that we've talked about in  
12 the past about the NCREIF benchmark is that it does not  
13 really reflect our level of leverage in the Real Estate  
14 Program. DOES the MSCI IPD do a better job of reflecting  
15 that or how will we adjust for that in our review of the  
16 asset class?

17 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah, I  
18 think that would depend on what type of potential  
19 customization you would do, because again the MSCI IPD,  
20 when it is reflective of the components of the portfolio  
21 that CalPERS participates in, represents exactly the same  
22 fund exposures as are contained in the NCREIF ODCE  
23 benchmark. So to the extent that -- you know, to that  
24 regard basically, you would have to modify or you would  
25 have to customize that calculation to end up with a

1 different outcome than we currently gets from NCREIF.

2 But that's predicated on -- they are looking at  
3 the effect of the actual degree of leverage and how that  
4 impacts those funds in its return. I think that tends to  
5 be more of an attribution element. And that's what we're  
6 actually hopeful that we'll be able to get more  
7 information on basically by the MSCI provision. It's a  
8 much deeper set of information.

9 COMMITTEE MEMBER MATHUR: I see, so we're trying  
10 to assess to what degree leverage is actually contributing  
11 to our returns vis-à-vis this benchmark.

12 MANAGING INVESTMENT DIRECTOR BAGGESEN: That's  
13 right.

14 COMMITTEE MEMBER MATHUR: Okay. That makes  
15 sense.

16 And then two more questions. Will this have an  
17 impact on, or shout it have an impact on what kind of  
18 consultants the Board has. Right now, we have a  
19 stand-alone infrastructure consultant, and we have real  
20 estate consultant separately?

21 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah, I  
22 think that's an interesting question, and I would suggest  
23 that's a question actually that should probably be  
24 reconciled between this Board and our Chief Investment  
25 Officer, and the real asset team. From the perspective of

1 our asset allocation work, you know, we're completely  
2 ambiguous about that.

3 COMMITTEE MEMBER MATHUR: Okay. And then my  
4 final question is with respect to REITs, and actually high  
5 yield as well in a way. And maybe this is jumping ahead a  
6 little bit to the growth -- to the private equity piece.  
7 But if we're -- if the core sort of role of real assets is  
8 going to be diversification, income, and inflation, does  
9 REITs -- do REITs really fit properly within that -- those  
10 three -- that role? Should they be moved over to the  
11 growth segment? And similarly, with high yield, fixed  
12 income, is it appropriately placed in fixed income?

13 MANAGING INVESTMENT DIRECTOR BAGGESEN: So  
14 basically with REITs, recognize REITs are not called out  
15 as a unique portion of the real asset area at this point  
16 in time.

17 COMMITTEE MEMBER MATHUR: Right.

18 MANAGING INVESTMENT DIRECTOR BAGGESEN: So REITs  
19 have been assimilated --

20 COMMITTEE MEMBER MATHUR: Yes.

21 MANAGING INVESTMENT DIRECTOR BAGGESEN: -- into  
22 the public equity portfolio.

23 COMMITTEE MEMBER MATHUR: Oh, okay. I thought  
24 they were -- for some reason, I had this in my head that  
25 they were still in the real estate?

1 CHIEF INVESTMENT OFFICER ELIOPOULOS: At one  
2 point they were.

3 COMMITTEE MEMBER MATHUR: We've transitioned  
4 that.

5 CHIEF INVESTMENT OFFICER ELIOPOULOUS: We changed  
6 that I think the last ALM cycle perhaps.

7 COMMITTEE MEMBER MATHUR: Okay. Then I  
8 mis-remember. Okay. So that's good. So that's already  
9 part of the growth segment. But with respect to high  
10 yield or that is -- remains part of fixed income?

11 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah.  
12 There's certain -- there's certainly equity aspects to  
13 high yield. And that will be another part of the  
14 discussion that we have later.

15 COMMITTEE MEMBER MATHUR: Okay. Thank you

16 CHAIRPERSON JONES: Okay. Ms. Yee.

17 COMMITTEE MEMBER YEE: Thank you, Mr. Chairman.  
18 I really appreciate this discussion and the work that the  
19 staff is putting into this. I think in terms of how we  
20 think about the different asset classes, it makes sense to  
21 look at how we streamline our thinking relative to the  
22 roles of each of them. And so I really appreciate that  
23 kind of more integrated thought, and that hopefully this  
24 will be about, at the end of the day, less pressure to  
25 look for deals, but to look for the best deals. And so



1 I'm hopeful of that.

2 I wanted to go back to slide 10, because there  
3 are a couple of things I wanted to just get a better  
4 understanding of of. Can you just talk about what the  
5 reference to simplifying vendor relationships means?

6 MANAGING INVESTMENT DIRECTOR BAGGESEN: Well,  
7 right now with the CalPERS, the Total Fund Risk System,  
8 we're taking in information from a whole array of outside  
9 entities. We then basically have a huge effort that goes  
10 on with staff from MSCI to basically take that information  
11 and -- I'm going to use the term "proxy", but in essence  
12 they try to translate that information about private  
13 investments into things where they can actually observe  
14 price change and calculate volatilities, because our  
15 entire risk system is predicated on being able to measure  
16 the change in valuation or price for assets.

17 So right -- that reality is that -- so we're  
18 taking information from the AREIS system. We take in  
19 information relative to the NCREIF. We take in tons of  
20 information relative to the private equity portfolio.  
21 That creates a huge behind-the-scenes amount of work  
22 basically to try to assimilate that into that risk system.

23 So by basically trying to consolidate where it  
24 makes sense to, onto a -- onto the same vendor that is  
25 doing all that calculation, they'll be basically, in

1 essence, doing a lot more of that work basically attached  
2 to the calculation of their basic benchmark, and less  
3 customized, in essence, for CalPERS.

4 COMMITTEE MEMBER YEE: Got it. Okay. And then  
5 to the third bullet, I'm just curious if you have any  
6 sense of what level of materiality would infrastructure in  
7 global real estate have to reach in order to justify a  
8 separate benchmark?

9 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah.  
10 Right now, these areas again do not warrant calling out as  
11 separate segments. But, for example, if we're able to  
12 participate in infrastructure and find a different  
13 business model, or whatever or the marketplace changes,  
14 potentially you could call infrastructure back out as a  
15 useful segment, if it is displaying characteristics that  
16 fit that sort of definition of discreteness.

17 In that instance, MSCI is basically developing an  
18 IPD version of the whole infrastructure universe, so  
19 they're deploying tremendous resources to actually  
20 construct a good infrastructure benchmark. It is the  
21 belief of our real asset team that that benchmark is not  
22 yet really usable. There's not enough data history for  
23 it. And also to that extent, they're building global real  
24 estate indices. So those global indices will eventually  
25 be fractured into regional indices and all kinds of

1 things.

2           So if we were to get into a position where our  
3 international real estate exposures were more material.  
4 Potentially again, that could conceivably warrant calling  
5 outs. So literally, this just sets you on a path where  
6 you have an organization that is actually expanding and  
7 growing all these different Permutations of the benchmarks  
8 that they calculate. So that just makes that level of  
9 detail more available, if it becomes relevant to us.

10           COMMITTEE MEMBER YEE: Okay. That makes sense.  
11 Thank you. Thank you, Mr. Chair.

12           CHAIRPERSON JONES: Okay. Mr. Jelincic.

13           COMMITTEE MEMBER JELINCIC: A number of things.

14           You talked about the purpose of real estate. And  
15 one of the things you said, well, we've got growth in  
16 there. And it really shouldn't be there, because clearly  
17 we have an interest in appreciation, but that's not the  
18 driver. But we do have a real interest, and I believe it  
19 should be a real driver, in growth of the income. So I'm  
20 not sure you really want to say growth, you know, is part  
21 of real estate.

22           The -- consolidating the group -- the segment  
23 makes some sense, because, quite frankly, the parts of  
24 infrastructure and forestland are currently so small that  
25 they're sort of hike like hedge funds, why bother.

1           But I am somewhat concerned about the fact that  
2 infrastructure has different risk and return expectations  
3 than an office building. And, you know, the difference  
4 between that -- those two and the difference between an  
5 apartment and an office building, I think, are magnitude  
6 of difference. So, you know, I'm somewhat bothered to  
7 learn that we're using the same underwriting criteria for  
8 two different assets. And so I'd kind of like you to  
9 comment on that.

10           And as you comment on it, you may consider  
11 forestland, which at one point actually was a significant  
12 asset to this fund, and a significant classification.

13 Now, I have -- you've all heard me say, on more than one  
14 occasion, having a forestland product with no exposure to  
15 the Pacific northwest is a tad on the mind-blowing side.

16           But, you know, one of the things that forestland  
17 does have is the ability that when it's down, you just let  
18 the asset sit there and grow. You don't harvest it.

19           The -- of course, one of the other things that,  
20 you know, they're more subject to forest fires than  
21 shopping centers, but, you know, they really are different  
22 assets. So I'd appreciate if you'd comment on that.

23           And I will give you one other concern is as we've  
24 talked about different asset classes, what we have  
25 consistently said is the index we use drives the

1 investments. You know, we're not going to have a whole  
2 bunch more, you know, IBM and the fixed income than the  
3 benchmark. We're not going to have a whole bunch more GM  
4 or significantly less GM in the stock portfolio, because  
5 the index is driving it and the tracking error is driving  
6 it.

7 And so if the index is going to be driving the  
8 investment decision, do we really, in fact, want to say,  
9 hey, we're, in essence, walking away from infrastructure?

10 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah, let  
11 me -- let me take a short at the couple of questions  
12 actually that got a bit strung together with that -- with  
13 your comments, Mr. Jelincic.

14 COMMITTEE MEMBER JELINCIC: Yeah, there are a  
15 number of questions embedded in that.

16 MANAGING INVESTMENT DIRECTOR BAGGESEN: I think  
17 to try to answer the first part about the underwriting  
18 standards, I'd just point your attention --

19 COMMITTEE MEMBER JELINCIC: Paul is coming up to  
20 help you.

21 MANAGING INVESTMENT DIRECTOR BAGGESEN: Let me  
22 take a stab, Paul, before you get started. When we  
23 adopted capital market assumptions in 2013 for the last  
24 exercise of the ALM, for real estate we had an expected  
25 compound return of seven percent, had a volatility of 14,

1 and we had a correlation relative to public equities of  
2 approximately 0.35.

3           Our infrastructure in forestland compound return  
4 expectations seven percent. We had an 11 volatility,  
5 instead of 14. I would suggest that those are not  
6 radically different numbers. And we had approximately 0.3  
7 correlation to public equities. So when I look at that  
8 from the perspective of the total fund, I do not see the  
9 discreteness that warrants a specific call-out in that  
10 regard, because we literally were attempting to extract  
11 almost identical characteristics, albeit they can  
12 certainly be nuanced, that nuance is never risen to the  
13 point of materiality in determining the outcome to  
14 CalPERS.

15           So literally we're just trying to get this work  
16 focused on the things that actually matter, and the things  
17 that are going to have a real effect on the overall  
18 portfolio. Certainly, some of the nuance of what you've  
19 described is absolutely relevant, but it's not clear to me  
20 that it's as relevant when we talk about the overall  
21 strategic asset allocation.

22           And I think I'd let Paul comment.

23           MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: Yes.  
24 The only thing I will add is from a -- from the level down  
25 in terms of our underwriting criteria, make no mistake,

1 we -- if it is a port asset versus an office building,  
2 we -- in terms of what the underwriting team does, they  
3 will get into the nuances of what drives the performance  
4 or what may create risk in those specific assets. We  
5 don't ignore that.

6           But what Mr. Baggesen said is exactly the truth.  
7 It is a -- it is matter of is this the best way to achieve  
8 our role, first and foremost. And secondly, is this  
9 specific deal the best way in which to achieve our return  
10 on a risk-adjusted basis.

11           Those elements come in -- come into play. And I  
12 believe it was Ms. Yee who said it earlier, really the  
13 other part of it is that we're not just chasing to an  
14 allocation, but we're really looking at a -- let's say a  
15 port versus an office building, and looking at the tension  
16 between those two to see what will provide the best  
17 risk-adjusted return. Because, in essence, the ownership  
18 structures in which we pursue an infrastructure deal and a  
19 real estate deal are very similar. They're generally a  
20 limited partnership agreement.

21           We have more proportional interests in  
22 infrastructure assets, because obviously they're extremely  
23 large. But at the end of the day, the structure in which  
24 we pursue it are very similar in either of those two  
25 discrete groups.

1           COMMITTEE MEMBER JELINCIC: But isn't -- yeah,  
2 isn't the structure part of our problem -- current problem  
3 in real estate -- or in forestland, I'm sorry?

4           MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: I would  
5 say with respect to infrastructure, we --

6           COMMITTEE MEMBER JELINCIC: I meant to --

7           MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: -- had  
8 -- the business model has been the challenge, and it has  
9 to get it to scale. That has been one of the areas that  
10 we've been working very hard to address, and work out.  
11 And we're hopeful that we are addressing it and moving it  
12 in the right direction.

13           We have increased our allocation to  
14 infrastructure over the last couple of years by roughly  
15 one and a half billion. So we've made -- we've made some  
16 progress. It -- but at the same time, we want to be  
17 mindful and be very disciplined in pursuing new  
18 investments. But that is the real rub. But we are doing  
19 a lot of work to try and get to a repeatable business  
20 model, much like what we've achieved in real estate on the  
21 infrastructure side.

22           COMMITTEE MEMBER JELINCIC: On the infrastructure  
23 side, I know one of the things that has been raised, and  
24 it was raised by the UN was take-out funding. And I  
25 haven't noticed that we have done any of that.



1           MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: We  
2 have.

3           Is the mic on? Excuse me.

4           Yes, we have, in fact -- there has been -- the  
5 toll road investment we made is an example of a fund that  
6 was liquidating. They're few and far between. Sometimes  
7 the funds sell to themselves -- sell to another fund  
8 manager, I should say, but we are mindful and we pay  
9 attention to that part of the market.

10           COMMITTEE MEMBER JELINCIC: When the UN was  
11 raising the issue, they were specifically thinking in  
12 Latin America, African continent where people have run the  
13 risks, have embedded the utility into people's lives, so  
14 you've eliminated a lot of the political risk of it going  
15 away, and funds wanting to get out, but -- and I did say  
16 infrastructure, but I really meant the forestland, because  
17 that's really where the -- our biggest problem, at this  
18 point, is the structure we got into.

19           Now, you didn't negotiate that, and I'm -- and it  
20 was done years ago, and hopefully we have learned since.  
21 But, you know, when we were doing forestland earlier, we  
22 used a different -- it was also a limited partnership  
23 structure, but much less, tying our hands. And so there  
24 is ways to go there.

25           So anyhow, so I -- I recognize they're very small

1 and probably -- I mean, it really raises a question is it,  
2 infact, worth doing given its size? Although, obviously,  
3 infrastructure has some very positive political aspects.

4 And I'm concerned with moving to an index that  
5 tends to drive the way we invest.

6 So thank you.

7 CHAIRPERSON JONES: Okay. Mr. Costigan.

8 COMMITTEE MEMBER COSTIGAN: Thank you, Mr. Jones.

9 I think I want to just back up a little bit,  
10 because not everybody in the room or watching us really  
11 understands what we're talking about. Paul, let's talk  
12 about just infrastructure. This was a word I hated when I  
13 was in the Governor's office. Infrastructure, based upon  
14 what happened two weeks ago with the Governor's tax  
15 proposal, is about roads, I-5, 99. That's when you talk  
16 about infrastructure, right?

17 A port is both. It's an asset, real estate, and  
18 it's an infrastructure. So can we take a little more  
19 about that, because we're just -- we're just throwing the  
20 word around "infrastructure". We're not going to invest  
21 in I-5. We're not going to put money down on I-5. So --

22 COMMITTEE MEMBER JELINCIC: Unless they make it a  
23 toll road.

24 COMMITTEE MEMBER COSTIGAN: Unless they make it a  
25 toll road, which is a distinction, because is that an

1 asset, a real estate asset that's -- that procures a  
2 revenue source, is it an infrastructure project, because  
3 then you get into the issue of PPPs? So I just want to  
4 sort of dial it back a little bit, because we've been  
5 throwing the word infrastructure around on -- and let's  
6 talk about what we're talking about. So let's -- we're  
7 going to -- I have a few more question, but let's define  
8 infrastructure very quickly.

9           MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: So in  
10 our strategic plan, we designated six segments in our real  
11 assets portfolio. Literally, it was one year ago almost  
12 to the day that the Investment Committee approved the  
13 strategic plan for real assets. And those six segments  
14 had included in it what we -- we had one area called  
15 "commercial", which would have taken into account toll  
16 rods, bridges, tunnels, which are more concession-based  
17 investments. You don't actually own the road per se, but  
18 you --

19           COMMITTEE MEMBER COSTIGAN: You own the revenue  
20 stream.

21           MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: -- own  
22 a right to --

23           COMMITTEE MEMBER COSTIGAN: A renews stream.

24           MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: You own  
25 a right to charge. And then a port asset is different,

1 but it is part of our bucket that we call transportation.

2 We also have power and energy.

3 COMMITTEE MEMBER COSTIGAN: But let's -- I'm  
4 sorry. Let's back -- in a port, okay, the shipping  
5 industry pays a fee to come in. I mean, there are fees  
6 associated with owning -- there are revenues from that  
7 that are spun-off from that asset. It's just not the  
8 valuation of owning a port, and the value of the land goes  
9 up. Just tell a little about the revenue that's spun off.

10 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: You  
11 own -- in the port asset in which we've invested recently,  
12 we're a landlord. So it operates much more like --  
13 literally almost like an office building might, where  
14 there are tracks or lots in which we hope to lease to a  
15 commercial importer or exporter at that particular port.

16 And then there's the -- so there, in that case,  
17 you have the ability to maybe move income - I don't  
18 remember. I believe it was Mr. Jelincic - to drive more  
19 revenue growth. But infrastructure and real estate are  
20 very herterogenous asset classes, when you break them down  
21 into the individual subcomponents of whether -- or sector.

22 What we try to do and -- is to try and get it to  
23 match the role in which we have with, you know, sort of  
24 the Committee and asset allocation works to sort of give  
25 us is to invest in the right types of assets that will

1 deliver on income diversification and inflation.

2 COMMITTEE MEMBER COSTIGAN: So, for example, the  
3 solar farm that we've bought in Palm Desert. The revenue  
4 is based upon the PPAs, the contracts that you entered  
5 into was it LADWP or Southern California Edison?

6 MANAGING INVESTMENT DIRECTOR MOUCHAKKAA: It is a  
7 PPA.

8 COMMITTEE MEMBER COSTIGAN: Okay. So, I mean,  
9 that's why I'm just trying to -- I want to make sure that  
10 as we understand when we talk about infrastructure, the  
11 big debate that we just had was about potholes and roads,  
12 right? That's what we're paying the gas tax for. And I  
13 just want to make sure when we're -- we're understanding,  
14 because I think we're mixing a little bit. Infrastructure  
15 really is part of real estate from the way that you're  
16 looking at going. Because it's not so much just I'm  
17 buying or I'm investing in I-5, because there's no revenue  
18 source associated -- which is a classic infrastructure  
19 project for a State entity, versus the fact that the toll  
20 road, the 91, is viewed as an infrastructure project, but  
21 it's the revenue derived from the access of the toll and  
22 the Fast Pass and the dynamic pricing and all.

23 I just wanted to get folks more to understand,  
24 because we're just throwing the term around, and  
25 infrastructure is broadly defined, because the other thing

1 we've talked about in the past, and I think as Ms. Mathur  
2 raised it is, is everybody wants us to invest in  
3 infrastructure, is that through a private-public  
4 partnership, the difference with a PPP is back to Ms.  
5 Yee's earlier comments is we have to chase returns to pay  
6 the promised benefit.

7           As much as we'd like to invest with the  
8 California Energy Commission on new lights, because it's  
9 beneficial to Los Angeles County, and that's an  
10 infrastructure plan, there's no revenue derived from that.  
11 I mean, I just want to make sure that we're all on the  
12 same page when we talk about infrastructure.

13           Thank you, Mr. Jones.

14           CHAIRPERSON JONES: Okay. Thank you. We have a  
15 few -- a couple more questions, but I see we're over our  
16 time for a 10-minute break, so I'm going to pause here for  
17 10 minutes, and then we'll reconvene in 10 minutes give  
18 our reporter time.

19           (Off record: 11:23 a.m.)

20           (Thereupon a recess was taken.)

21           (On record: 11:33 a.m.)

22           CHAIRPERSON JONES: I'd like to reconvene the  
23 Investment Committee meeting, please.

24           COMMITTEE MEMBER HOLLINGER: I'll listen to you,  
25 Henry.

1 CHAIRPERSON JONES: Okay. Thank you.

2 Okay. Are we ready?

3 I know we had a -- I guess re-request to speak,  
4 because I guess when we closed the meeting, all of the  
5 requests disappeared. So if you still want to speak just  
6 re-put a request in again.

7 But I just wanted to also make a comment about  
8 the infrastructure. In terms of the business plan, it  
9 appears to me, like you said, develop a business plan. If  
10 you then take away the infrastructure as a asset class,  
11 and then you're kind of waiting for the business plan to  
12 be developed by others. And I would suggest that we be  
13 more aggressive in developing our own business plan to  
14 deal with the infrastructure issues, since we have said  
15 that in the past, it had excess returns, I mean, as  
16 compared to some of the other asset classes.

17 We have said that not only does it provide excess  
18 returns, but we could do good and well by investing in  
19 solar energy and dealing with climate change, and you  
20 know, and those -- but if we wait for the business plan to  
21 be developed, then we probably will be at the one percent  
22 as it is. And I would suggest, because we said that it  
23 responds to some of our priorities of income, cash flows,  
24 appreciation and all of those factors, that you say are  
25 important to the sustainability of the fund. So that's my

1 comment on the infrastructure piece.

2 CHIEF INVESTMENT OFFICER ELIOPOULOS: If I could  
3 respond, and assure you at the same time, the real assets  
4 team has very a developed strategic plan that the  
5 Investment Committee approved as well as very specific  
6 strategies for all of the different segments of  
7 infrastructure. What Paul was highlighting is the need to  
8 really set the business model up to be able to invest at  
9 greater scale, which is a priority of yours and the  
10 Committee. And I think they made much progress on that,  
11 so they're not -- they're not waiting. They've put in  
12 place now, a number of very specialty separate accounts in  
13 place in infrastructure that are bearing fruit and growing  
14 the number of assets. The solar facility is an example of  
15 a separate account that was able to act.

16 So I think the team feels good that they have in  
17 place the business structures now to find the  
18 opportunities. And the question will be over time how  
19 many opportunities are there, and at what scale, and at  
20 what price to bring them within the portfolio.

21 So I just want to assure you that there's no  
22 waiting and there's no waiting, and there's no sitting  
23 back to do further planning work. It's more about  
24 execution, how to get partnerships in place pursuing the  
25 right strategies, and then finding the opportunities at



1 scale. And that's the piece that we're still waiting for.  
2 The finding the opportunities piece has been slower than  
3 we'd hoped for, but this is a very new and emerging  
4 investment area. And I think that's another reason for  
5 having an index or benchmark here tied to what is more,  
6 you know, by far the predominant piece of the asset class,  
7 which is the real estate side.

8 We think that, on balance, is a better comparison  
9 benchmark at this stage when infrastructure is so small  
10 and real estate is so big, than having our current index  
11 for infrastructure, which is, you know, inflation,  
12 absolute return index.

13 So it's a long-winded way of saying we think this  
14 addresses both the priorities of the Committee and does it  
15 in a way, particularly from a total fund perspective, that  
16 holds together much better from our perspective.

17 CHAIRPERSON JONES: Okay. Ms. Mathur.

18 COMMITTEE MEMBER MATHUR: Thank you.

19 My question is really a broader question about  
20 this roles definition of different the different  
21 asset classes. And, you know, I have been a strong  
22 advocate for factor-based allocation. I recognize that  
23 it's easier said by me than implemented or executed by the  
24 team. And that having these role definitions for the  
25 different asset classes is sort of a step along the way to

1 getting there.

2 I guess my question is, is are we losing anything  
3 by having such tight role definitions? Are there  
4 strategies that we are not able to implement that we  
5 otherwise might want to or are there -- given these  
6 tighter roles?

7 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah.  
8 Let me take a shot at that. I think what we need to do is  
9 we need to be very understanding that what we're talking  
10 about are the characteristics that we're trying to  
11 assemble for the entirety of the fund. And those  
12 characteristics need to be generalized, and they need to  
13 be discrete enough that they can actually make a  
14 difference, because literally if we try to achieve  
15 everything with everything, we end up achieving nothing.  
16 We lose focus, and that basically has everybody running in  
17 multiple directions in a way that is very, very difficult  
18 to control the outcome that comes from that.

19 I don't think that you should interpret though  
20 this idea of trying to create, you know, somehow a simple  
21 understandable structure at the high level of the total  
22 fund should dilute all of the intricacies of what goes on  
23 within the different parts of actually managing the  
24 portfolio. We still have exposure to over 60,000 assets  
25 in this investment program.

1           So literally trying to distinguish this, which is  
2 again -- one of our objectives is to try to basically make  
3 that risk system that attends to assimilate all this  
4 information together, as useful as possible. That's one  
5 of the reasons of what we're recommending. So I'd suggest  
6 that the place to try to understand that nuance is when we  
7 do all of the program reviews, then they can get into the  
8 detail about what they're doing.

9           But literally, to try to call these things out as  
10 unique enough to warrant inclusion at what you do at the  
11 most base level, the strategic asset allocation level.  
12 Just it's -- we're splitting hairs to be honest with you.

13           And I'll just quote a message that Allan Emkin  
14 passed up to me. And he said, Eric, he said don't create  
15 buckets that you can't fill. And he's absolutely right.  
16 This has been our challenge, for example, within  
17 infrastructure. We've been attaching that asset class  
18 literally since Russell Read was the CIO, right? So that  
19 pre -- you know, preceded Joe Dear even.

20           And we've gotten to the point where we have just  
21 over one percent of that asset. So there's no point in  
22 having that. Every time we've done the strategic asset  
23 allocation, we always recognize, oh, we'd love to have  
24 three percent or five percent or almost whatever percent  
25 we could get of this. And yet, we haven't been able to

1 achieve that. So what we're trying to do at this stage is  
2 focus on things that we think are achievable, which is not  
3 to say that they're not achievable in the next iteration  
4 of this work, and then you potentially could call it back  
5 out, if it's relevant at that point in time.

6 So I just think it's --

7 COMMITTEE MEMBER MATHUR: Yes.

8 MANAGING INVESTMENT DIRECTOR BAGGESEN: -- it's  
9 important to just keep the context about, you know, what's  
10 underlying the recommendation that we're putting in front  
11 of you.

12 COMMITTEE MEMBER MATHUR: So I -- I hear you on  
13 that point. I guess my question is slightly different,  
14 and that is the mix of strategies that you might employ to  
15 achieve the three characteristics of diversification,  
16 income, and inflation are different than if you also  
17 included growth in that list, for example. And so those  
18 strategies that might have been used to achieve more of a  
19 growth outcome, do they have a place in our portfolio, and  
20 should they be placed somewhere else, and are we -- is the  
21 fact that we're not employing them at all the right  
22 decision, or employing them in very small quantities?

23 Is that something that we should be thinking  
24 about how do we place that type of strategy elsewhere,  
25 because it can deliver value that's for the fund.

1           MANAGING INVESTMENT DIRECTOR BAGGESEN: No, I --  
2 again, I think that's absolutely a fair question. I think  
3 what -- again, what we're trying to be somewhat thoughtful  
4 about is -- and maybe this is simply just reflecting back  
5 on the last battle that was fought, sort of in the  
6 financial crisis, but we literally had growth as a  
7 statement that was attached to virtually every asset class  
8 that CalPERS had.

9           And what we ended up with was equity risk in real  
10 estate. We had a degree of equity risk in fixed income.  
11 We had equity risk obviously in private equity, public  
12 equities. It literally was everywhere. It was in the  
13 hedge fund portfolio. So when equity risk suddenly went  
14 down, our portfolio is getting torched in every component  
15 of it simply because that is the risk that had recently  
16 been compensated, and everybody started chasing what had  
17 recently been compensated.

18           That's why we need to be a little careful about  
19 the terminology that we attach to this. We have plenty of  
20 growth risk in this portfolio --

21           COMMITTEE MEMBER MATHUR: Sure.

22           MANAGING INVESTMENT DIRECTOR BAGGESEN: -- I  
23 would suggest to you. Whether we have a little tiny bit  
24 more in one corner of the building or another, probably  
25 isn't really going to make a difference to the outcome to

1 CalPERS. That is our predominant risk right now. So  
2 where we're trying to do something other than that growth  
3 related risk, we actually need to reinforce and try to  
4 maintain the focus in those assets on the thing that we're  
5 attempting to extract from them.

6 COMMITTEE MEMBER MATHUR: Fair enough. And we're  
7 confident that we are seeking the best risk-adjusted sort  
8 of growth? I guess that's the question. And maybe --  
9 maybe it's so -- such a small differential -- difference  
10 that it's not worth. And there, of course, you know, if  
11 we're produce -- pursuing a lot of opportunistic and real  
12 estate, then that has other implications, because, you  
13 know, liquidity implications, et cetera that maybe we  
14 don't want to take on. But maybe this is too  
15 philosophical a discussion.

16 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: I  
17 was going to make one -- one quick question. Wylie  
18 Tollette, CalPERS staff, that is relative to this  
19 infrastructure question, and I think it's relevant to both  
20 the Chairman's question about, you know, are we  
21 de-emphasizing infrastructure in this decision as well as  
22 your question, Ms. Mathur, which is the current benchmark  
23 for infrastructure, as Ted indicated, is basically  
24 inflation plus 400 basis points.

25 And not only is that benchmark not investable at

1 all, it really -- it doesn't even like pretend to be  
2 investable. It also has zero volatility essentially  
3 associated with it. So if you're examining any  
4 investment, which invariably have some degree of  
5 volatility, they -- when compared to that particular  
6 benchmark, they're going to look unattractive.

7           And not that our Investment staff, you know,  
8 adheres sort of slavishly to the benchmark in their  
9 investment decisions, but the fact that the benchmark has  
10 no volatility certainly could not have helped but  
11 influence investment decision making. So by using a  
12 benchmark that actually has a degree of volatility, that  
13 we think is more realistic of what actual investments  
14 have, not only in real assets, or -- excuse me in real  
15 estate, but also in infrastructure, there's a possibility  
16 that new infrastructure projects that we would have  
17 dismissed before, because they have volatility, we may now  
18 be able to consider.

19           COMMITTEE MEMBER MATHUR: Okay. Thank you.

20           CHAIRPERSON JONES: Okay. That's the last  
21 question on that piece. We'll move on to the next  
22 section.

23           MANAGING INVESTMENT DIRECTOR BAGGESEN: Let's  
24 move on to the easy part of this discussion.

25           CHAIRPERSON JONES: That's what you think.

1 (Laughter.)

2 --o0o--

3 MANAGING INVESTMENT DIRECTOR BAGGESEN: Just, in  
4 general though, I was going to make one last comment.  
5 When we're -- basically, when we talk about benchmarks,  
6 benchmarks get used for many different things within the  
7 structure of an organization like CalPERS. And what we're  
8 talking about now are the benchmarks from the relevance of  
9 the characteristics they bring into this strategic asset  
10 allocation process. We're not talking necessarily about  
11 benchmarks as they relate to the incentives or the  
12 assessment of performance, and we're also not talking  
13 about benchmarks particularly in relation to the private  
14 asset classes, so much from the point of portfolio  
15 construction, because literally there's -- the portfolio  
16 construction elements of this are very problematic, and  
17 that's actually an element that we'll touch on a little  
18 bit within the private equity stage of the discussion.

19 But I just think it's important to remember that  
20 these things have many different purpose, and we're not  
21 necessarily trying to solve for everyone in the discussion  
22 today. So, Ted.

23 CHIEF INVESTMENT OFFICER ELIOPOULOS: Okay.  
24 Private equity. Before I turn it back to Eric, I thought  
25 it would be helpful to set the context a bit for the



1 Committee --

2 --o0o--

3 CHIEF INVESTMENT OFFICER ELIOPOULOS: -- and what  
4 we're trying to achieve today. You can see what's written  
5 on this -- on this page. I'm going to cover -- really  
6 take us back to November of 2015 during our private equity  
7 workshop, and really make sure we remember the context  
8 that we discussed at that time, because I think it's  
9 relevant for the recommendations that we're making today.

10 And then secondly, I'm going to cover potential  
11 questions we might get about this recommendation, and  
12 answer hopefully quite clearly what this recommendation is  
13 not, in response to those questions.

14 --o0o--

15 CHIEF INVESTMENT OFFICER ELIOPOULOS: First of  
16 all, flash back to November of 2015 during our private  
17 equity workshop. We identified a number of challenges of  
18 investing in private equity and discussed them at quite  
19 some length during that meeting with a lot of materials  
20 and discussion points behind it.

21 This is a chart that -- a summary chart that we  
22 used during that workshop. And I'll just highlight really  
23 three of the challenges that are relevant for the  
24 discussion today and the approaches that we're  
25 recommending to hope address in part some of those

1 challenges. There's no way to answer those challenges and  
2 solve them forever more. I wish -- I wish there were, but  
3 that's part of what makes this investment asset class so  
4 challenging.

5           First of all, controlling private equity  
6 exposure. There's a chart in the appendix that just shows  
7 how difficult it is with respect to private markets in  
8 General - this is the same with real estate to a little  
9 lesser degree, but in private equity very hard to control  
10 the numerator, you know, the commitments that we make to  
11 all the various private equity partners go out in annual  
12 allotments that are meant to last for 10, 15, sometimes  
13 those funds last 20 years.

14           So the numerator you're constantly making  
15 additional commitments every year. And those commitments  
16 are taken down over a number of years. And then the  
17 general partner, in taking down those commitments, invest  
18 in private companies, and those get valued over time, and  
19 they're grown, and hopefully the values goes up, but  
20 sometimes the reverse happens.

21           So controlling the numerator is largely out of  
22 our control. And then the denominator, largely our public  
23 stock and fixed income portfolio, it moves quite a bit as  
24 well. So that having a fixed set allocation to private  
25 equity at 10 percent, 12 percent, 14 percent is a

1 challenge, both from the numerator and the denominator  
2 standpoint.

3           Number two, for all host of reasons we talked  
4 about in the workshop, and it's reprised here today in the  
5 discussion around benchmarks, there's no perfect benchmark  
6 for private equity, and that's a challenge, and we're  
7 coming forward with a recommendation today that we think  
8 is -- we think is a good -- a good recommendation. I was  
9 going to say solution. I caught myself.

10           CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: A  
11 step in the right direction.

12           CHIEF INVESTMENT OFFICER ELIOPOULOS: Yeah, a  
13 step in the right direction to addressing some of the  
14 challenges but certainly not solving the benchmark  
15 challenge. AND this is something that is bedeviling all  
16 institutional investors. Our sister fund just went  
17 through a very -- CalSTRS went through a very significant  
18 discussion about this just last month in reviewing their  
19 own benchmark.

20           And lastly, you know, the ability to predict the  
21 cash flows coming in and out of the private equity  
22 portfolio is challenging. And the need, both from a  
23 exposure standpoint, and a cash flow standpoint to try and  
24 find a proxy, a public proxy to proxy thde private asset  
25 class exposure, or the private equity exposure, is

1 something that we've been thinking a lot about. And we  
2 think, again, the recommendations before you are a step in  
3 the right direction to address these challenges.

4 --o0o--

5 CHIEF INVESTMENT OFFICER ELIOPOULOS: Now, before  
6 I turn it over to Eric, we did think of some of the  
7 potential questions that might be posed about this  
8 recommendation to -- before the Committee, to really put  
9 in one place our growth exposure, both public equity and  
10 private equity. Some of the questions that might come up,  
11 does this mean CalPERS is eliminating private equity?

12 And I, emphatically for myself and the team, say  
13 that's not the case. The answer is no. We believe, for  
14 all the reasons we talked about in the private equity  
15 workshop last November and continue to believe, it's an  
16 important part of the portfolio, and will be a material  
17 and significant part of the portfolio going forward, we  
18 believe.

19 And so this is not, in any way, a message or a  
20 foreshadowing or an attempt on behalf of staff, in any  
21 way, to signal or attempt to eliminate private equity.  
22 That's not the case.

23 Is the benchmark recommendation that Eric will  
24 walk you through, you know, due to, you know, any concerns  
25 over underperformance of private equity over the years

1 compared to the various benchmarks that have been used?

2 And in that -- in that regard, I can only say we've used

3 many, I think more than a handful of benchmarks trying to

4 get -- you know, always build a better mouse trap for

5 sure. And so that's why we come to this with some

6 humility in discussing benchmarks, because both this

7 Investment Committee and investment staff over the years

8 have really tried to come up with different ways to

9 compare the private equity portfolio over time. And it's

10 resulted in a -- you know, a very complex benchmark over

11 the -- you know, over the last 20 years of the performance

12 and very difficult to measure performance over that time

13 period without a lot of specificity, because of the

14 changes in benchmarks over those years.

15 And certainly, depending on which part of that

16 benchmark, which type of benchmark we selected during any

17 given year, any given time, there could be either

18 overperformance or underperformance compared to that

19 different way of measuring, and -- so that's one.

20 Number two, during the workshop we talked quite a

21 bit about how the net performance of the private equity

22 portfolio, the one thing we could say over just about

23 every time period we looked at 20, 15, 10, 5, and 3, it

24 had met its performance goal of outperforming our own

25 global equity portfolio plus 300 basis points.

1           Now, it was 200, 250 in some time periods, 500 in  
2 others. But over the long period of time, it met that  
3 goal. So what we're recommending today is again part of  
4 the building of better mouse trap, we actually think that  
5 the recommendation that Eric will go through in making  
6 really an explicit link to the investment -- investable  
7 alternative, like I just did, what we could vote -- what  
8 we could actually invest in our own global equity  
9 portfolio is probably the best approach going forward.

10           Third, you know, are we trying to eliminate the  
11 excess return requirement, you know, get rid of the, you  
12 know, 300 basis point excess return expectations that has  
13 been built into just about every capital market assumption  
14 that we've done in the ALM process over the last two  
15 decades?

16           And the answer there is no, that question -- no.  
17 The excess return expectation will be set by this  
18 Committee as part of the asset allocation process. And  
19 that has a couple implications. Well, one, just by doing  
20 that, it would maintain a excess return expectation. And  
21 then number two, as we put in this parentheses, it implies  
22 that at point in time we'll probably have to set some sort  
23 of minimum target or minimum expectation for how much  
24 private equity we'll have in the portfolio over the course  
25 of the next -- next four years.

1           And then lastly, is this, in any way, can it be  
2 extrapolated or inferred to reduce the transparency  
3 reporting that we have in the portfolio?

4           And the answer to that is no. We would maintain  
5 our commitment to all the enhanced reporting and  
6 disclosures that we have in the portfolio today.

7           So I thought that would be helpful to kind of  
8 take those questions, you know, head on up front, and  
9 hopefully free our discussion up really to look at the  
10 merits of this. And again, as I said, we come to this  
11 with humility. There isn't a perfect answer. There isn't  
12 a one right answer. We think this fits with the approach  
13 that we have, both in our Investment Beliefs, in our  
14 portfolio priorities, and in how we're trying to manage  
15 the portfolio from the total fund perspective, rather than  
16 having silos within the portfolio. And this gets us in  
17 the right direction on a lot of metrics.

18           So with that, I'll hand it back to Eric. And  
19 this preamble can conclude and the meat of the -- meat of  
20 the recommendation can go forward.

21                           --o0o--

22           MANAGING INVESTMENT DIRECTOR BAGGESEN: Okay.  
23 Thanks, Ted. Eric Baggesen, CalPERS staff again.

24           I think I would just point your attention -- I  
25 think this is page 317 of the iPad, and it's page 18 of

1 the attachments. And this really just gets into some  
2 bullet points on the main rationale behind the  
3 recommendation that we basically combine our private  
4 equity and our capitalization-weighted public equity  
5 exposures into one growth bucket.

6 We've also, in the role statement for private  
7 equity, there were two statements that used to be attached  
8 to private equity. One -- one was in relation to growth.  
9 That continues. It also had a statement of illiquidity.  
10 And honestly, illiquidity is not a characteristic that  
11 we're trying to emphasize in the portfolio in contrast to  
12 the other side of that coin, which is liquidity. And we  
13 don't consider private equity as a place where we would  
14 naturally look to to generate liquidity in the portfolio.

15 And it's not even absolutely crystal clear that  
16 the premium that you earn for private equity derives  
17 automatically from that illiquidity element. There's a  
18 lot of debate about that -- the source of excess return in  
19 private equity.

20 What I think we really want to focus on with this  
21 discussion though is -- one is actually trying to shift  
22 the management of the allocation to the growth assets in  
23 private equity, shifting that up to the responsibility of  
24 the total fund. I'm going to jump, as I said, for a  
25 moment back to some of the attachments that we have.



1                   --o0o--

2                   MANAGING INVESTMENT DIRECTOR BAGGESEN:   So if  
3 you'd bear with me and maybe Wylie can tell us which pages  
4 these are within the appendix.  This is page 26 of the  
5 attachment.  Do you have the --

6                   CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

7                   Yeah, it's page 325 on the iPad.

8                   MANAGING INVESTMENT DIRECTOR BAGGESEN:  Okay.  So  
9 this chart that we've got in front of you, the line on the  
10 chart -- or the blue line represents the actual allocation  
11 to private equity.  And you can see how volatile that's  
12 been going from basically zero percent up almost to 16  
13 percent, and then back down to its current level of just  
14 over eight percent.  So it's basically traversed all over  
15 the place.

16                  And the red step function line is the target that  
17 we've had within the strategic asset allocation exercise.  
18 So the first thing I'd point to your attention is that if  
19 you notice though, the vast preponderance of the time our  
20 actual exposures has been under the target, which is meant  
21 we've had a perennial underweight to the highest expected  
22 return asset component in the portfolio.  So we literally  
23 have sat here and handicapped ourselves by assuming that  
24 we could have more exposure to an asset class that's been  
25 challenging for whatever reasons in order to get that

1 exposure.

2           The times when this thing has expanded in its  
3 representation within the portfolio have all been times  
4 when the public markets are falling apart. So literally,  
5 you can see, right, the first bump in that line was the  
6 2002 kind of time frame when the market was selling off  
7 from the dot com bubble. So again, the denominator was  
8 shrinking. Private equity is priced off of models and  
9 smoothing and all kinds of things. So literally, it tends  
10 to have more stickiness attached to its valuations. So it  
11 expanded in its proportion of the portfolio. And then you  
12 see the dramatic change that happened in the '08-'09 sort  
13 of time period.

14           So one is this just demonstrates the degree of  
15 controllability, or lack thereof, in actually having the  
16 ability to hit the target. From an asset allocation  
17 perspective, I personally am loathe to have a team setting  
18 up a set of targets that we actually can't manage the  
19 exposure to. What's the point of the target, if you can't  
20 manage actually arriving at the -- at that destination in  
21 some rational fashion.

22           CHAIRPERSON JONES: Eric, before you go back to  
23 that previous, Committee members ask that you explain in a  
24 little bit more detail on this chart. Is that --

25           COMMITTEE MEMBER JELINCIC: I can identify it.

1 CHAIRPERSON JONES: Okay. Go ahead, J.J.

2 I've got a whole bunch of questions, but focusing  
3 specifically on this chart. The blue line is -- the label  
4 says it's actual holdings. My -- what I thought I heard  
5 you say is that it was our commitments.

6 MANAGING INVESTMENT DIRECTOR BAGGESEN: No, this  
7 is the actual market value, Mr. Jelincic. This is not  
8 reflective of the value of the commitments.

9 COMMITTEE MEMBER JELINCIC: Okay. So our  
10 commitment presumably would be closer to the red line?

11 MANAGING INVESTMENT DIRECTOR BAGGESEN: It --  
12 potentially.

13 COMMITTEE MEMBER JELINCIC: Our commitments are  
14 usually bigger than our holdings.

15 MANAGING INVESTMENT DIRECTOR BAGGESEN: We'll  
16 show on the next slide some of the commitment activity.

17 COMMITTEE MEMBER JELINCIC: Yeah, so our -- but  
18 our commitments are usually bigger than the holdings,  
19 because it hasn't all been drawn down.

20 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah, I  
21 mean, from -- from an asset allocation perspective,  
22 though, I mean, we could -- we could definitely -- we  
23 could add up the market value plus the value of the  
24 commitments. But since we actually don't expect to earn  
25 the return on just the committed value until it's drawn,

1 it's not clear to us what's the relevance of that number  
2 basically.

3 COMMITTEE MEMBER JELINCIC: I just, you know, was  
4 trying to get to understanding what I was looking at.  
5 Thank you.

6 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah.  
7 No, this is the actual exposure.

8 On the next page, this shows some of the  
9 commitment activity. So again, you see -- you see the  
10 movement basically relative -- this is drawn relative to  
11 the S&P 500 index, which you could argue whether or not  
12 that's really the relevant baseline for this. But what  
13 you see is that when the -- when the equity market has  
14 been expanding, our commitment levels have tended to drift  
15 up. So again, when the market is going up, the public  
16 markets that I'm referring to our representation in  
17 private equity tends to be diminishing, because again it  
18 prices on models and it's sticky valuation, so it doesn't  
19 react to the same act -- level of change that the public  
20 markets do, especially in the sort of 2005 to 2007 or '08  
21 time period leading up to the financial crisis.

22 You see that huge bulge knowledge in commitment  
23 activity. So think about the challenge that this presents  
24 to the private equity staff, whereon one hand we're asking  
25 them to identify the managers that have the most skill in

1 the marketplace, because there's a huge dispersion in  
2 outcomes that happen across the private equity managers.

3           And at the same time, they're basically chasing  
4 the structure of the asset allocation by committing money.  
5 So you have to ask yourself does the committing of capital  
6 to managers actually come in conflict with basically  
7 trying to identify the most skillful managers in the  
8 marketplace?

9           Add I would suggest that there's an inherent  
10 conflict in those two activities? That kind of asking the  
11 staff to achieve multiple objectives, in my mind, is a  
12 very good way to actually diminish what you achieve on any  
13 of those objectives. Focus is actually a critical element  
14 of this.

15           So a fundamental underlying premise that we're  
16 trying to achieve with the recommendation is to really  
17 have the private equity team just focus on identifying  
18 managers that we believe have the greatest skill in the  
19 marketplace, and then trying to create a rational  
20 rereationship with those managers.

21           We're trying to not make them az sensitive to  
22 whether we're under or overallocated to the asset area.  
23 From a very simple perspective, CalPERS has almost a  
24 limitless appetite for the excess return that we think  
25 that we can extract from private equity. I mean, we're

1 literally sitting with 150 odd billion dollars of public  
2 equities. If we think we can get excess return from this,  
3 we would invest in this thing literally all day long. So  
4 it's literally, we would -- just -- but that is predicated  
5 again on finding those managers with the most skill in the  
6 marketplace, because again, you have a tremendous  
7 dispersion of outcomes.

8           So we're trying to, in essence, just recognize  
9 that we have that tradeoff and create focus for the  
10 private equity team. That's one of the really fundamental  
11 elements of this recommendation.

12                           --o0o--

13           MANAGING INVESTMENT DIRECTOR BAGGESEN: One of  
14 the other elements that underlies the recommendation  
15 though is actually related to portfolio construction.  
16 Currently, the way the private equity team is able to  
17 operate and the decisions that they get to make within the  
18 marketplace is literally just about trying to identify  
19 categories of managers. They commit capital to those  
20 managers. The managers then draw that capital down and  
21 actually make investments with that money for a  
22 determination or a duration that's entirely up to the  
23 manager's discretion.

24           The result of that is this kind of tracking  
25 error, if you will, relative to -- this happens to be to

1 the existing private equity benchmark, but it's still  
2 footed back to the public markets. But you can see that  
3 the risk of this program has bounced anywhere on the low  
4 side, five percent, all the way up to, you know, in  
5 essence, 20 or 30 percent volatility relative to that.

6 Now, some of this volatility comes from the  
7 attributes of private equity. And again, pricing off of  
8 models with smoothing and a number of things, but it also  
9 comes from the fact that we end up with some very, very  
10 idiosyncratic investments in this portfolio.

11 As those managers try to identify companies that,  
12 in general, tend -- they tend to believe have  
13 underutilized assets, and they are trying to inter --  
14 interact with those organizations, and try to more  
15 efficiently deploy the assets that these corporations  
16 represent into the marketplace.

17 An example of the sort of idiosyncratic exposures  
18 that we've had was an exposure that we had sort of in the  
19 2009-2010 time frame, which was LyondellBasell, which is a  
20 chemical company. So Apollo, one of our private equity  
21 managers, basically, along with CalPERS, invested over a  
22 billion dollars of CalPERS' capital into LyondellBasell.

23 That investment represented a significant  
24 overweight to the chemical industry on behalf of CalPERS.  
25 It's unclear to me whether or not Apollo or CalPERS was

1 making any statement that they thought the chemical  
2 industry was relatively undervalued compared to the rest  
3 of the marketplace that we invest in.

4 Irrespective of whether or not anyone had any  
5 accountability for that particular type of a decision, it  
6 would -- it nonetheless, was an artifact that came out of  
7 the activity attached to that.

8 A piece of the recommendation that we're making  
9 is that it opens the door to the possibility of being able  
10 to merge the exposures from private equity with the  
11 exposures in the cap-weighted public equity portfolio, and  
12 then to basically take offsetting positions to control  
13 those kinds of artifacts.

14 So whether or not you really wanted to have a  
15 significant billion dollar overweight to the chemical  
16 industry or not, at least you would have the ability -- if  
17 that's not the bet that you wanted to make, you would have  
18 the ability to potentially offset that by underweighting  
19 chemicals in the public equity portfolio. So it allows us  
20 to control some proportion of this kind of tracking error  
21 volatility that emanates from the private equity  
22 portfolio.

23 Now we already engage in some of this kind of --  
24 it's called completion portfolios. And those of you that  
25 have been on the board for a long time will remember we



1 used to have a program we called the dynamic completion  
2 fund. That never attempted to deal with anything related  
3 to private equity. That was all just about the artifacts  
4 coming out of the public equity managers. And we still do  
5 some of those kinds of adjustments.

6 For example, if we have a Japanese focused  
7 manager, Dan and the global equity team can actually  
8 offset some of that Japanese overweight, because that  
9 manager may -- they may be depending on that manager for  
10 securities selection within Japan, but it's not clear that  
11 manager is making the bet that Japan is the relative value  
12 relative to everything else.

13 So they can offset that from a risk exposure or  
14 from a currency exposure. And what we're really talking  
15 about is trying to take some of that capability and extend  
16 it, where warranted, into the private equity market.

17 Before you would engage in that activity though,  
18 we need the private equity team to have a significantly  
19 different dialogue with their managers than I think is  
20 currently happening. And a piece of that dialogue is to  
21 actually try to understand what exactly is it that the  
22 manager thinks, what forecasts are they making. So if I  
23 go back to the example of LyondellBasell, if Apollo  
24 believed that the chemical industry was relatively  
25 undervalued compared to the rest of the marketplace, that

1 might be a bet that you do not want to offset.

2           But we need to understand the accountability  
3 behind that bet. Right now, we've got no understanding of  
4 it, and we have no way to offset it, even if we determined  
5 that it was simply an artifact that the organization is  
6 experiencing in its return stream without anyone making  
7 the underlying belief that that's a risk we're going to be  
8 rewarded for.

9           And this again traces back to the Investment  
10 Beliefs, where we will take risk where we have a rational  
11 belief that we're going to be rewarded for it.

12           This volatility attached to private equity is the  
13 biggest source of active risk in the portfolio. So it's  
14 the volatility in the way that it's operated, and it's the  
15 volatility of its actual representation in the portfolio  
16 relative to the targets.

17           This uses basically almost two-thirds of our  
18 entire risk budget. And for the most part, it's virtually  
19 uncontrolled. So what we're suggesting is a mechanism  
20 that will help us start to control that. But again, it's  
21 not just a simple do this and you get that outcome.

22           We're really trying to change the focus in the  
23 way the team operates. And when I say team, it's not  
24 private equity. It's also public equity. If we merge  
25 these two pieces of the portfolio together, then you start

1 to have a shared sense of responsibility and  
2 accountability for also trying to achieve the excess  
3 return target.

4           As Ted mentioned, we're not going to eliminate  
5 the excess return expectation from whatever representation  
6 we can have in private equity. Instead we would just  
7 impute that over a larger part of the portfolio. Because  
8 another piece of this is to try to find additional tools  
9 for generating excess return.

10           We have an appetite in this fund for generating  
11 excess return by any mechanisms that we can figure out to  
12 generate it. And we need more people in the organization  
13 really trying to think up mechanisms that can generate  
14 excess return, which is going to come from taking some  
15 other kind of investment risk. You do not get return just  
16 for aspiring to get it. It's not a commodity that we can  
17 purchase from the marketplace. So we have to take some  
18 kind of a differential risk in order to achieve that  
19 return, whether it's illiquidity in private equity, or  
20 it's the manager's skill or who knows what it is,  
21 basically. There's some other elements.

22           But we need more people in this -- in the  
23 Investment Office thinking about trying to achieve the  
24 kinds of levels of return that we aspire to be adding with  
25 this fund.

1           And a piece of this though is the fact that we  
2 are capacity constrained on every avenue that we've been  
3 able to identify that can help to generate that excess  
4 return, whether it's investing, as we do in the synthetic  
5 equity portfolio. If you look at the return history for  
6 that, it's been a solid value-added exercise, but it is  
7 capacity constrained. If it's private equity, capacity  
8 constrained.

9           So literally, we need as many of these different  
10 branches as we can possibly identify. And this is trying  
11 to get more people in the organization actually thinking  
12 about the alternatives as to how to generate that.

13                           --o0o--

14           MANAGING INVESTMENT DIRECTOR BAGGESEN: Let me  
15 just go back again for a moment to the bullet points on  
16 this. As Ted mentioned, we want to explicitly link  
17 private equity to the alternative asset, which tends to be  
18 our public equities, because every time we've been  
19 underweighted to the private equity area as an asset  
20 class, there's been an implied proxy there, whether we can  
21 accountability for that or not.

22           So it's whatever we're overweight basically tends  
23 to be the offset to that. Now, we want to make that an  
24 explicit linkage basically, instead of just letting that  
25 fall to happenstance in that thing. And again, I would

1 suggest to you that I think the most important outcome of  
2 doing this though is changing the way the people in the  
3 Investment Office think. And it's trying to try to get  
4 people to raise their focus up to a larger set of outcomes  
5 to a bigger part of the portfolio away from all of the  
6 sort of tunneled down small things that so many people in  
7 the Investment Office spend tremendous amounts of their  
8 time doing, which in and of itself, those all fine  
9 activities, but they may not be the activities that are  
10 actually going to change the outcome to the portfolio in  
11 its aggregation.

12           And I think I would ask, at this moment, whether  
13 you have any questions about this, and then I was going to  
14 turn it over to Wylie to talk a little bit about some  
15 benchmark mechanics, if you will, in that space.

16           CHAIRPERSON JONES: Yes. Mrs. Hollinger.

17           COMMITTEE MEMBER HOLLINGER: Thank you. I  
18 appreciate all the time and effort and the enormity of the  
19 undertaking.

20           I told you on our call that theoretically it may  
21 sound good on paper, but I'm concerned that it does not  
22 recognize the organizational dynamics. Private equity, we  
23 have a difference in duration risk. It's illiquid, not  
24 traded. Public equity is traded, different skill sets.  
25 On the public equity, it's managed top down. Private

1 equity, we have to source to find deals, higher leverage,  
2 duration, massively more labor. And my concern is in  
3 combining these two, private equity has been an asset  
4 class that's given this fund its additional alpha.

5           So what I'm concerned about is that the team that  
6 currently manages our private equity portfolio will become  
7 marginalized, because all of a sudden they're a small  
8 portion of 55 percent.

9           And my other concern that I'd like you to  
10 address, you were talking about trying to capture this  
11 idiosyncratic risk. Well, what I wanted to know is are we  
12 getting reporting in real time? What level of granularity  
13 does PEARS capture? Are the managers providing us the  
14 data to input to determine the attribution factors, for  
15 example, geographies, industry rates, so that if we saw an  
16 overweight on utilities, or you said we were in chemical,  
17 is that being reported in real time or are we getting that  
18 after the fact, and then we find out they sold that  
19 particular position in private equity?

20           CHIEF INVESTMENT OFFICER ELIOPOULOS: Why don't I  
21 take the staffing one first --

22           COMMITTEE MEMBER HOLLINGER: Okay.

23           CHIEF INVESTMENT OFFICER ELIOPOULOS: -- and then  
24 I'll hand it over to you on the attribution side, and  
25 PEARS side.

1 I don't -- I don't think that this would  
2 marginalize our staff, in particular our private equity  
3 staff. And I think it actually would have the opposite  
4 effect, at least that's my hope and our hope in doing  
5 this. And that it will include -- excuse me, include the  
6 private equity staff in the bigger picture of portfolio  
7 construction that we're trying to achieve.

8 And I think by having a siloed staff looking at  
9 just one piece of the portfolio, in this case, a eight  
10 percent, a 10 percent part of the portfolio, the bigger  
11 risk we have is that they're marginalized and isolated and  
12 siloed, and -- so that's number one.

13 Number two, it opens up the ability to think  
14 about the private companies we invest in at a much larger  
15 scale. In other words, for private equity, many times  
16 they're trying to solve their diversification goals in  
17 terms of the 10 percent allocation that -- that they're --  
18 that they're given as a target.

19 And in this case, by including the growth bucket  
20 as a whole, really what we're asking this part of the  
21 portfolio to do is to invest -- invest in growth  
22 opportunities across the globe at a scale commensurate  
23 with the overall portfolio. So looking at a chemical  
24 company investment, as an example, the private equity team  
25 really looked at that in terms of its diversification

1 within private equity, at that time.

2           And now, the question really is across our whole  
3 growth portfolio, what is the risk of that investment over  
4 the whole rather than just a portion?

5           COMMITTEE MEMBER HOLLINGER: Yeah. But when we  
6 allocate, let's say, to an Apollo or a Carlyle, do we have  
7 that level of granularity of knowing that -- the sectors  
8 they're in, the geographies, the weights? Are we getting  
9 that in real time?

10           CHIEF INVESTMENT OFFICER ELIOPOULOS: That's a  
11 perfect transition to Wylie.

12           COMMITTEE MEMBER HOLLINGER: Okay.

13           CHIEF INVESTMENT OFFICER ELIOPOULOS: Previously,  
14 prior to PEARS and other upgrades in our data systems, we  
15 didn't have any granularity, much less granularity. We  
16 have much more information now on much faster time frames,  
17 but it's not, you know, one day granularity. So I'll turn  
18 that over to Wylie --

19           CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

20           Yeah-- , that's right. Wylie Tollette, CalPERS  
21 staff. And I'll take this opportunity to invite up Sarah  
22 Corr, our new Interim Head of Private Equity.

23           COMMITTEE MEMBER HOLLINGER: Welcome, Sarah.

24           CHIEF OPERATING INVESTMENT OFFICER TOLLETTE: And  
25 just by -- just briefly, two quick comments. The



1 information that we get from our private equity managers  
2 is lagged, so there's a time lag clearly. Like almost all  
3 the information that we get in private equity, it's  
4 reported in financial statements, and in other reports,  
5 and then we have teams that help capture that information

6 COMMITTEE MEMBER HOLLINGER: So how do we -- oh,  
7 go ahead.

8 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

9 But -- just quickly. Sorry. Then the -- and we  
10 have it for most of the managers. And I'll let Sarah  
11 comment on that. They're always trying to expand that  
12 list, but the bulk of them -- the one other comment I'd  
13 make in terms of the possibility of completing the  
14 portfolio in the way that Eric described, that would only  
15 be done for -- you would not do that on a -- on a sort of  
16 micromanagement level. You would do that for very large  
17 material exposures that would buildup over time.

18 For example, if you're port -- if your private  
19 equity portfolio developed over a number of years a large  
20 exposure to the energy industry, that's the kind of thing  
21 that isn't going to happen overnight --

22 COMMITTEE MEMBER HOLLINGER: Right.

23 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

24 -- and it's not going to decline overnight. It  
25 would be something that you could then decide whether you

1 completed -- whether you completed that portfolio in the  
2 public space. You wouldn't do that if they just added a  
3 tech company, and then offset that at a very sort of  
4 micromanagement level, just to be clear. That's -- that  
5 would be a much level -- probably that would be a lot of  
6 work and effort for very little pay back. I think these  
7 would be the types of -- this completion strategy would be  
8 something you would do only for the most material risk  
9 exposures. And so with that, I'll turn it over to Sarah  
10 to provide more details on the PEARS detail.

11  
12 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Sarah  
13 Corr, private equity staff. With PEARS, we are cape -- if  
14 when we receive the information, either in a capital call  
15 or distribution, it is in real time we do track the  
16 industry and geography that those cash flows are  
17 associated with. But for a portion of the portfolio, we  
18 don't get that information until the quarterly financial  
19 statements come in. So it's probably about 30 or 35  
20 percent that is the delayed, and about 70 percent that we  
21 get more real time.

22 COMMITTEE MEMBER HOLLINGER: But let's say we  
23 have a legacy portfolio, then we have a strategic  
24 portfolio, correct?

25 INTERIM MANAGING INVESTMENT DIRECTOR CORR:

1 Correct.

2 COMMITTEE MEMBER HOLLINGER: So regarding the  
3 legacy portfolio, which is, let's say, half the private  
4 equity, are we getting information on those sectors?

5 INTERIM MANAGING INVESTMENT DIRECTOR CORR: Yes.

6 COMMITTEE MEMBER HOLLINGER: And then on a  
7 go-forward basis?

8 INTERIM MANAGING INVESTMENT DIRECTOR CORR:

9 Correct.

10 COMMITTEE MEMBER HOLLINGER: So I -- I guess what  
11 I wanted to be reassured, number one, I'd like to see a  
12 snapshot of like the -- just what PEARS looks like or the  
13 level of detail, and I'd want to be reassured we're acting  
14 in real time, not all of a sudden we saw a spike in  
15 chemicals, and because a private equity firm then the next  
16 month maybe sold that company, and we're responding, not  
17 in real time, but to stale information, because -- so that  
18 would be a concern to me.

19 And let me see if I -- I think that's it, but  
20 thank you.

21 CHAIRPERSON JONES: You're welcome.

22 Mrs. Mathur.

23 COMMITTEE MEMBER MATHUR: Thank you.

24 Well, I actually think this sounds like a really  
25 good idea from the point of view of managing these types

1 of exposures. I think it's a prudent thing to do. It's  
2 something we've talked about sort of even broader beyond  
3 these two asset classes, but also to include like regional  
4 exposures in real estate, or even through shopping malls  
5 what kind of exposure are we having to different  
6 industries, sort of trying to get a full picture of, you  
7 know, are we taking -- are the exposures reflective of our  
8 actual view on the markets or are they reflective of  
9 some -- you know, the outcomes of just various -- an  
10 accumulation of different investment decisions. So I  
11 think this is a step in the right direction.

12 I do have a question, and maybe it's more  
13 relevant to the benchmark discussion, so tell me if that  
14 is true, but my -- I had always heard that private equity  
15 performance lags public equity performance by about a  
16 year. And that that is -- and so that has made it hard to  
17 compare current private equity performance to the current  
18 public equity market. Is that -- is that actually true,  
19 and is that -- is that our experience, and how would that  
20 be incorporated into our consideration of what an  
21 appropriate benchmark and the process would be?

22 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

23 I'll take a crack at that, Ms. Mathur.

24 There is definitely a lag.

25 COMMITTEE MEMBER MATHUR: Yeah.

1 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

2 It's difficult to sort of pin down exactly what  
3 that lag might be. In our performance reporting, you'll  
4 notice we -- we do actually lag both of the asset -- all  
5 of the private asset classes back three months. That's  
6 built into the process. So there's not only sort of this  
7 mechanical lag that's built into the process, there's also  
8 I think what you might be referring to is an actual  
9 economic lag, where the private equity managers might be  
10 responding to trends in the equity market, so that they  
11 take advantage of momentum on the way up, and then perhaps  
12 take advantage of values on the way down.

13 I think anecdotally we would say that that does  
14 exist. I'm hesitant to sort of pin it down to a specific  
15 year, whether it's year. I suspect that's also very  
16 industry dependent, where in some industries that might  
17 -- that lag might be -- they might be much more linked,  
18 and much more responsive, and in other industries they  
19 might be very de-linked.

20 So it's probably -- like I said, I'm pretty  
21 hesitant to put down a specific number of months where  
22 there is a lag, but it's fair to say there is one.

23 COMMITTEE MEMBER MATHUR: So then how would that  
24 impact -- or would that factor in at all to how you are  
25 jointly managing this growth asset class or this, you

1 know, of private equity plus public equity?

2           MANAGING INVESTMENT DIRECTOR BAGGESEN: I think  
3 the implication of that is you would basically have to  
4 reserve judgment about what's happening to longer term  
5 time periods honestly, because literally it's over longer  
6 term time periods that you see the value of private equity  
7 emerge. So I think that you would have to -- in essence,  
8 you would -- you would probably know very little from like  
9 one year performance or something like that.

10           So I think it's basically you'd have to be moving  
11 out the measurement assessment period, and then I think  
12 the timing lags tend to neutralize each other, when you  
13 start to expand that time horizon. And I think that  
14 that's the rational way to probably deal with that, but  
15 that certainly -- that's a topic that has to be wrestled  
16 with, but we don't think that that necessarily obfuscates  
17 the rationale as to why we would do this again from an  
18 asset allocation perspective.

19           COMMITTEE MEMBER MATHUR: So in the short term,  
20 we'd have to apply some judgment to what's happening and  
21 why --

22           MANAGING INVESTMENT DIRECTOR BAGGESEN: Um-hmm.

23           COMMITTEE MEMBER MATHUR: Okay. All right.

24 Thank you.

25           CHAIRPERSON JONES: Okay. Mr. Jelincic.

1           COMMITTEE MEMBER JELINCIC: I have a number of  
2 questions, but let me start with the big one. Is private  
3 equity actually a growth asset?

4           I mean most of what we do is LBO, which was what  
5 they used to call the industry, but it got a bad name, so  
6 they started calling it private equity, which is not  
7 really growth. It's extraction. It's how much debt can  
8 we pile on and take -- take out of it, how much can we  
9 squeeze vendors, how much can we squeeze labor?

10           There was a recent private equity retail company  
11 that went belly-up. And I forget who it was. The  
12 private -- the general partner said this was a really good  
13 investment. We got out three times what we put in. Now,  
14 the fact that the company is being liquidated, people are  
15 losing their jobs does not suggest to me that it is  
16 growth.

17           So I think there's a real fundamental question.  
18 To the extent that we do venture capital and growth  
19 investment, which is -- venture capital is becoming less  
20 and less, growth is a very small part. The real question  
21 is, is it a growth asset?

22           MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah. I  
23 mean, I think that when we -- when we look at the  
24 interaction between private equity and the rest of the  
25 equity portfolio -- remember those little smile charts

1 that we put together?

2 COMMITTEE MEMBER JELINCIC: Yeah.

3 MANAGING INVESTMENT DIRECTOR BAGGESEN: When you  
4 look at that, private equity definitely has the  
5 characteristics that are -- that link it to the public  
6 equity market. And certainly, I think, you know,  
7 irrespective of what you believe to be the elements that  
8 the managers are trying to emphasize or not, they  
9 basically need economic growth and business activity in  
10 order to get out of those deals.

11 In other words, if they're going to take on a lot  
12 -- a bunch of debt, they basically need to be able to  
13 convert that debt into some kind of a productive asset.  
14 And if they're not able to do that, they're going to run  
15 the company into bankruptcy.

16 So literally, a piece of that is -- basically has  
17 to be supported by economic growth and the economy's  
18 utilization of whatever it is that that company produces.  
19 Without that, there's no ability to pay back the debt.  
20 There's no way for them to make any money, or generate a  
21 carry for themselves, or return for their investors.

22 So from our perspective, we definitely believe  
23 that it's tied back to economic activity, which is sort of  
24 the root of all of these growth-related investments.

25 COMMITTEE MEMBER JELINCIC: But if I pile on the



1 debt, do a dividend recap, I've got my great IRR to  
2 report. The fact that the company ultimately can't pay it  
3 is immaterial, because I got my money up front, and the  
4 back end where it's not as important, there's a negative.

5 Part of that return got extracted from the  
6 lenders. You know, to the extent that we've squeezed  
7 suppliers, or -- suppliers generally, you know, they've  
8 paid for it. So I'm not really sure that LBOs really are,  
9 in fact, growth.

10 One of the things I have asked consistently is  
11 where is our returns coming from? And the answer is --  
12 that I'm getting is, well, we've got some ideas. We  
13 really don't know. We will know in a couple years,  
14 because we've started gathering that data. So it's really  
15 a concern of whether it is, in fact, a growth.

16 Yeah, we talk about excess return. Excess return  
17 implies a risk adjustment. If we're simply getting higher  
18 returns because we're taking more risk, then it's not a  
19 very good tradeoff, but -- and we can't do risk  
20 adjustments, if we don't understand the risks we are  
21 taking. And we don't understand the risks we are tacking  
22 if we don't know where the money is coming from, where the  
23 profits are coming from. So I think, again, I go back to  
24 is it really a growth asset?

25 You had talked about drawdowns early on. And

1 drawdowns can mean a couple of things. One, it can mean  
2 there's actually cash extracted out, you know, because a  
3 general partner makes a call.

4           On the other hand, we also use drawdown to imply  
5 a market decline. If we have a market decline and don't  
6 liquidate anything, and it goes back up, then it's really  
7 kind of a non-event. It's taking advantage of the fact  
8 that we're long-term investors. So I think we need to  
9 be -- we need to really think about the term, and  
10 what -- what we mean when we say drawdown, and maybe we  
11 need two different sets of terms.

12           You talk about the importance of offsetting risk,  
13 you know, because the general partner has gone and put a  
14 big bet on an industry, for -- was the example you used.

15           You know, one of the questions becomes, well, do  
16 we really want to offset that risk - and it's risk  
17 relative to a cap-weighted benchmark - when we have paid  
18 this general partner a bloody fortune to identify the  
19 risks to take. So if we're going to offset the risk he's  
20 taking, how do we justify paying for it?

21           One -- and Ted had earlier raised the issue of  
22 the numerator, and it real -- and there is a real problem  
23 there. The general partner controls when they drawdown  
24 the money, but they also control when they give it back to  
25 us, which creates another problem with trying to figure

1 out what the numerator is. And, you know, they will tend  
2 to give it back to us when -- probably at our worst  
3 opportunity, because if they had a good opportunity, they  
4 wouldn't give it back to us.

5           And one of the problems we have is we have given  
6 them a real option on our capital. And as far as I can  
7 tell, we have not priced that option. And, you know, if  
8 you want to give me free options, I'll take them, but --  
9 so anyhow that's -- if you'd care to comment on those, and  
10 then I'll drop it and I'll come back later with the rest  
11 of them.

12           CHIEF INVESTMENT OFFICER ELIOPOULOS: I can't --  
13 I won't take up the rest of them. I do think it's worth  
14 talking a little bit or responding a bit to some of the  
15 good questions that you asked. They really are reprise of  
16 our workshop, in many ways. And I think with some of  
17 these types of questions, there's never one right answer.  
18 And I think with respect to the linkage of private equity  
19 to economic growth, I think Eric's answer speaks for our  
20 view on that.

21           I think you are correct, as we've discussed,  
22 there's some real challenges with private equity and  
23 performance attribution, and all limited partners are  
24 challenged with the availability of data to do accurate  
25 and fulsome performance attribution in private equity.

1 That's a real handicap for assessing the risk-adjusted  
2 return of the asset class as you posed. That's not going  
3 to get solved during this ALM cycle. So this Committee is  
4 going to have to make the decision, as it always does,  
5 whether or not it wants to include private equity in the  
6 portfolio or not. That will be a -- that will be a  
7 question that the -- that this Committee answers during  
8 the asset allocation stage.

9           As we discussed at the November workshop, those  
10 are challenges with the asset class. The net return, not  
11 risk adjusted, the net return we think we've been rewarded  
12 compared to our investable alternative. So our  
13 recommendation will be, as I alluded in my comments, to  
14 continue investing in private equity for a number of  
15 reasons.

16           But you're very right to raise these questions.  
17 They're not answerable for -- it's a judgment call,  
18 particularly on the risk-adjusted side. And I think  
19 that's a risk consideration and a return consideration  
20 that will really be at the heart of the Committee's  
21 deliberations and decision whether or not to include  
22 private equity in the portfolio or not.

23           If the answer to these questions, in any  
24 individual Committee member's mind or the Committee as a  
25 whole is no, we don't know enough about this asset class

1 to continue investing, then that's certainly an answer  
2 that's reasonable to provide, and a conclusion that's  
3 reasonable to conclude.

4 I think our recommendation to the Committee will  
5 be to include private equity in the portfolio for all the  
6 reasons that we've discussed, but it doesn't belittle or,  
7 in any way, diminish the very good and serious questions  
8 around private equity that we continue to ask ourselves  
9 and continue to have this dialogue about.

10 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

11 Oh, I was just going to make a comment. As Eric  
12 indicated a bit earlier, during the actual final stages of  
13 asset liability management process, this Committee will  
14 have a chance to examine and decide on what type of  
15 premium you want to associate with private equity and  
16 build into the overall allocation to this growth bucket.

17 As you know, during the last asset liability  
18 management cycle, you built in a 300 basis point premium  
19 over the public equity markets, and as well as we used a  
20 25 percent volatility, which is really an estimate of the,  
21 sort of, implied volatility. That's not what we observe  
22 in the private equity markets for a wide variety of  
23 reasons, accounting reasons really, because it's  
24 the -- the valuations are lagged. They're accounting  
25 braced estimates. They're might be smoothing going on.

1 So to compensate for that, we assumed a 25 percent annual  
2 volatility in the optimization process. That essentially  
3 penalized private equity in the overall optimization.

4 Because of the returns to private equity, if you  
5 didn't penalize private equity that way, the optimizer  
6 would really load up on it. You'd have an awful lot of it  
7 in your allocation --

8 COMMITTEE MEMBER JELINCIC: Like real estate.

9 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

10 -- and end up with an awful lot of private equity  
11 to the point where you might find yourself in liquidity --  
12 bumping into liquidity constraints. And so during the  
13 November workshop, Eric and his team will be bringing back  
14 candidate portfolios, as well as a discussion around that  
15 return premium that we need to build into this overall  
16 growth bucket now that we're proposing that private equity  
17 just be a component of that bucket, rather than its own  
18 separate slice of the pie so to speak.

19 CHAIRPERSON JONES: Okay.

20 COMMITTEE MEMBER JELINCIC: Yeah, I'll hold the  
21 rest of my questions until we actually get to  
22 benchmarking.

23 CHAIRPERSON JONES: Mr. Lind.

24 COMMITTEE MEMBER LIND: Thank you. Just a  
25 comment on the recent couple of questions by J.J. I mean,

1 some valid concerns that J.J. continues to raise. You  
2 know, I -- in my pre-retirement career, as a union leader  
3 in the retail industry, particularly retail grocery, I  
4 interacted a lot with private equity, both as, you know,  
5 the Chair of the pension fund, but also as the union  
6 leader. And we had -- there were success stories both  
7 from the aspect of -- for investors, as well as for my  
8 members and for the companies that they worked for.

9           And, of course, there were challenges as well.  
10 It's dependent on the general partner, and on the manager,  
11 and all the things that we've talked about here. But, you  
12 know, I mean, I support the private equity class for us to  
13 continue investing in.

14           With respect to Eric's presentation, and I do  
15 want to compliment you, because as usual, you took a very  
16 complex topic and explained it in a way that's somebody  
17 that's not an investment person every day can understand  
18 it, so we can make good decisions. So thank you for that.

19           I support the, I guess we'll call it for  
20 shorthand, the merger concept, because I think it does  
21 make sense. There's obvious synergy there. I think the  
22 chemical example was a good one.

23           And then your discussion about changing the focus  
24 away from just meeting the allocation, because I think  
25 what you're saying is if the focus is there, then maybe we

1 expand the pool of investment managers that we might  
2 consider to our detriment. So that shift of focus makes  
3 sense to me as well.

4 I did want to ask you a question though, and this  
5 was kind of early on in your presentation and you  
6 discussed it quickly. You said that the source of the  
7 private equity investment premium is not necessarily  
8 illiquidity. It is maybe other factors more than  
9 illiquidity, which is kind of contrary to what we learn in  
10 investments 101, I think. So can you maybe just talk  
11 about that a little bit.

12 MANAGING INVESTMENT DIRECTOR BAGGESEN: Yes, Mr.  
13 Lind. Eric Baggesen again, CalPERS staff. Trying to  
14 actually identify where private equity managers make their  
15 money, to Mr. Jelincic's comments, I mean, this is  
16 Absolutely a dilemma that the industry faces. Whether  
17 it's the done by leverage, that's certainly probably an  
18 element of it, whether it's done by restructuring  
19 companies and better deploying those assets or breaking  
20 them up and sending them off, you know, a subsidiary of a  
21 company to another company that can make better use of it  
22 or has a greater synergy, that's also probably a piece of  
23 it.

24 To the extent that you're disabling or taking  
25 value from the creditors of the company, I mean, that's



1 certainly -- I'm sure that observation is absolutely true  
2 in some circumstances.

3           Really, the bottom line of this whole  
4 recommendation is whatever the source of this activity,  
5 the only way we're ever going to get to the bottom of  
6 having an opinion about how they generate those returns is  
7 basically by one getting more information about it, which  
8 I think is -- underlies the whole effort attached to  
9 PEARS, and it's also basically trying to get the focus of  
10 everybody in the organization to try to like pick a part  
11 the layers of that onion to begin to understand that.

12           Right now, the private equity team is sitting  
13 here by themselves for the most part trying to figure out,  
14 okay, how do we answer the questions that Mr. Jelincic  
15 raised, you know, where are these managers generating  
16 return from? How do we get our allocation up to the  
17 target allocation? You know, we're basically asking them  
18 to do two or three or four different things  
19 simultaneously.

20           And all I'd suggest is that I think the  
21 environment that we're suggesting merging these two  
22 together will allow some focus on trying to answer the  
23 questions that Mr. Jelincic posed, because I'm -- it's not  
24 clear to me that we can answer them today. You know, if  
25 knew exactly where the source of return is, it would be

1 easy -- it would be easier to identify which managers to  
2 participate with?

3           But, for me personally, I think honestly the  
4 source of return for the private equity managers is just  
5 dealing with the unknown. In other words, they put a plan  
6 together of what they think is going to happen when they  
7 go out and invest in or take control of a company. The  
8 minute they try to start executing that plan, the  
9 marketplace is changing, the world is changing, everything  
10 is changing.

11           So I think their alpha honestly is their ability  
12 to dance to whatever tune is being played. It's  
13 maintaining a degree with flexibility, whether they need  
14 new management, whether they need to restructure the  
15 assets, whether they need to change the financial plan,  
16 ultimately they're able to come up with some combination  
17 of attributes that appears to have generated value-added.

18           But I think until we have a bit more information  
19 about that, it's going to be hard to understand. And I  
20 think the more people we have trying to understand that,  
21 the better chance we'll have to be able to answer some of  
22 those questions. And that's why I actually think a piece  
23 of this is sharing some of that accountability for trying  
24 to answer those questions and honestly sharing a piece of  
25 that with Dan's team to get them focused on trying to

1 answer those questions.

2 Right now, they just focus on their part of the  
3 marketplace, and they leave it to the private equity  
4 people to attempt to answer those questions on behalf of  
5 this organization. So that's what, as I keep saying, a  
6 bunch of this is trying to change some of the culture  
7 within the Investment Office and focus on the higher,  
8 bigger level questions, which we don't have good answers  
9 for to be honest with you.

10 COMMITTEE MEMBER LIND: Thanks.

11 MANAGING INVESTMENT DIRECTOR BIENVENUE: Just --  
12 Dan Bienvenu, Managing Investment Director for global  
13 equity. The only thing I would add is, really quickly, I  
14 would be a little careful of using the term "merge",  
15 because we are talking about for the portfolio context and  
16 definitely not the business model contention, right? So  
17 the private equity team is a strong empowered team and  
18 they -- that -- ever since I have is that that will stay  
19 to be the case.

20 COMMITTEE MEMBER LIND: I just said it's  
21 shorthand. That's all.

22 MANAGING INVESTMENT DIRECTOR BIENVENUE: Right.  
23 Absolutely. Eric used it also, so I just antes to make  
24 sure that we were just -- I just want to caution us just  
25 so we're all talking about the same thing, that we merged

1 the portfolio management context to some degree. I think  
2 one of the really important things is that we'll just  
3 start a dialogue, and we'll work closer as a team.

4 I mean, you know, Sarah and I, and actually many  
5 of the people in the private equity team we have a very  
6 good rapport, but we don't work on portfolio management  
7 topics that much together. And what this does is it  
8 pushes together, and we'll ask some, what will probably  
9 sound like, really foolish public market questions. And  
10 they'll explain to us why those don't make sense. And  
11 then others though potentially is we start holding the  
12 attribution to a public equity, you know, level of  
13 standard, my sense is that while we won get to a public  
14 equity standard, we'll make progress, and vice versa.

15 And, you know, even in some of the comments Mr.  
16 Jelincic made about -- about, you know, when a company  
17 gets levered up and then what happens to it? Generally,  
18 you see those play out in the public markets. And my  
19 sense is that we're going to learn a lot from working with  
20 the private equity folks on the evolution of a company  
21 from private into public and as -- as we do our jobs.

22 CHAIRPERSON JONES: Okay. Ms. Yee.

23 COMMITTEE MEMBER YEE: Thank you, Mr. Chairman.

24 First, I want to just thank the tremendous work  
25 that the staff has done to bring this issue forward, much

1 of it driven by the workshop, yes, in November, but I  
2 think given where we have been with the private equity  
3 asset class and all of the just criticisms that we have  
4 received relative to this asset class. In some ways, I  
5 think what's driven this is just the frustration of the  
6 illiquidity and certainly what we're continuing to improve  
7 upon with respect to the transparency of fees, you know,  
8 that have gotten us here.

9 I agree with Mr. Baggesen. I think this is one  
10 of the areas where we're going to see a lot of these  
11 questions answered within the context of actually pursuing  
12 going down this road. I like the idea of, you know,  
13 having this -- I think this combination, not merger,  
14 concept, because I do think it's going to present new  
15 opportunities. Now with that, it also will present  
16 equally the same issues that we always grapple with, and  
17 that is volatility and, you know, the extent of the return  
18 premium with respect to the benchmark. So all those  
19 questions don't go away.

20 But I do think that having more kind of the  
21 shared ability to look at kind of shared attributes  
22 certainly will help diversify what we do in private  
23 equity. I think that's a given, as well as having a more  
24 value-added approach, which I think is always helpful as  
25 well.

1           So I really appreciate the road that we're going  
2 down. I just had one question and suggest and that is  
3 when we take up this issue next, whether a presentation  
4 might be I guess a -- a decision tree, or lack of a better  
5 term for that, I think there's a threshold question about  
6 whether we want to stay in private equity or not as a  
7 threshold question. I mean, personally think we should.  
8 But from there -- emanating from there, then what does  
9 this combined approach look like, and what are some of the  
10 other considerations that we need to have.

11           There's a lot of information here. I am anxious  
12 to learn about what the Canadian experience has been, and  
13 even, albeit short lived, but if there's so some -- any  
14 experiences that are instructive to how we should proceed,  
15 that would be helpful. But I think, you know, I look at  
16 this as really kind of being driven to this point, given  
17 where we've been with private equity. And in some  
18 respects I think it will open up a lot more opportunities.

19           And again, I think both with respect to the real  
20 asset conversation we had, and now with private equity,  
21 it, I hope, will lessen the pressure about just looking  
22 for deals for the sake of deals, and that we are really  
23 driven by investing in the right, you know, kind of  
24 more -- the right and the best deals.

25           So I hope that's going to be the outcome. And I

1 feel like with just these added considerations and  
2 certainly looking at the more integrated review of the  
3 roles, I think we get there. I think we get there.

4 CHAIRPERSON JONES: Okay. Thank you. I think  
5 that Ms. Yee's point about a decision tree is good, but I  
6 don't think it starts from whether or not we're going to  
7 go into private equity, because I haven't heard any -- any  
8 indication that there's a belief that we should not  
9 invests in private equity. So I don't -- I just want the  
10 public to know that's...

11 Just a minute, just a minute.

12 Okay.

13 COMMITTEE MEMBER YEE: And I trust my colleagues  
14 are on the same page as I am. I think from a public  
15 perspective and where we've been with respect to the look  
16 at this asset class, I think that is an appropriate  
17 starting point, because then when we look at going down  
18 this direction, we really are incorporating some of the  
19 criticism. And, you know, the tradeoff of what we're  
20 doing here is really acknowledging the illiquidity, and  
21 what we've been through relative to fee transparency. I  
22 mean, that's how we got here.

23 And to Mr. Jelincic's point, I mean, I think a  
24 lot of these questions will continue to be there, and  
25 will start to be answered as we look at what the

1 experience will be on this combined approach. So I do  
2 think that's an appropriate starting point from a public  
3 perspective.

4 CHAIRPERSON JONES: Okay.

5 Ted.

6 CHIEF INVESTMENT OFFICER ELIOPOULOS: I think if  
7 I can -- I think help clarify or resolve -- and resolve is  
8 probably too strong of a word, but comfort the Committee  
9 that actually all these viewpoints have a landing spot  
10 during this asset allocation and ALM process. Any time  
11 the Committee adopts an asset allocation, it chooses  
12 whether or not to have an asset class there or not. So  
13 whether I explicitly or we explicitly together said are  
14 you going to have public equity in the portfolio or not,  
15 private equity in the portfolio or not, fixed income, that  
16 decision that the Committee will make when it adopts the  
17 asset allocation, explicitly we'll make a decision on what  
18 assets are -- what asset classes are in, and which Asset  
19 classes are out, so that decision will be forth -- will be  
20 before the Committee.

21 CHAIRPERSON JONES: And I was just reiterating,  
22 you asked about the policy questions in your opening  
23 remarks, whether or not you -- we're going to eliminate  
24 private equity. And you're saying that's not a  
25 recommendation, and I'm only saying that I haven't heard



1 any Board member that have an interest in eliminating  
2 private equity.

3           Okay. Mr. Slaton.

4           VICE CHAIRPERSON SLATON: Thank you, Mr. Chair.

5           Eric, thank you for this work and your  
6 explanations here. I think that, you know, this is always  
7 a tough asset class, but it also performs. So just  
8 because it's difficult, doesn't mean we shy from it.

9           The issue is how we're organized about it. And I  
10 also want to thank, Mr. Lind, for your comments. You  
11 know, the -- every asset class has heroes and villains.  
12 And, you know, it's too simplistic to put one of those  
13 labels on one asset class, and not realizes that our job  
14 is to sift through and to make good prudent decisions so  
15 we can deliver the benefits.

16           I think what this discussion really has been  
17 about, and what is -- you're coming forward with this  
18 information item is how we organize ourselves. So it's  
19 not about the asset class itself, it's about how we're  
20 organized to take the most advantage out of it. And I  
21 would -- I thought the chart that you did that showed the  
22 numerator denominator -- effectively the numerator  
23 denominator problem really says it. You know, how much  
24 influence do we put on that versus making good appropriate  
25 selections and balancing risk and overweight/underweight.

1 That gets to the heart of the matter, rather than some  
2 artificial allocation scheme. So I'm very supportive of  
3 the direction you're going, and will look forward to the  
4 ALM process and we'll all continue, but thank you.

5 CHAIRPERSON JONES: Okay. Mr. Jelincic.

6 COMMITTEE MEMBER JELINCIC: The -- I want to make  
7 it real clear. I am not saying we should not be in  
8 private equity. What I am saying is we don't have enough  
9 information to know that we are actually being properly  
10 paid for the risks we are taking. I've got a whole bunch  
11 of questions, but they go to the benchmark, but the other  
12 thing that I want to point out is it can't be just, well,  
13 this is good because it gives us high return.

14 You know, the -- my understanding of the industry  
15 is that selling heroin has very high returns, but we're  
16 not going to do that just for returns. So it can't be  
17 just an absolute these are good returns. It's got to be  
18 are they good risk-adjusted returns?

19 And I'll hold the questions on the benchmark till  
20 the benchmark.

21 Thank you.

22 CHAIRPERSON JONES: Okay. Mr. Costigan.

23 COMMITTEE MEMBER COSTIGAN: Thank you, Mr. Jones.

24 I just wanted to get a clarification from the  
25 Controller. I want to make sure I heard it. Is the

1 threshold question private equity at the front-end or  
2 private equity at the back-end of the process? Because I  
3 was a little confused, I'm sorry, as to -- because I do  
4 think it's a great threshold question whether we should be  
5 in it or not, but -- was it a -- were you looking at it is  
6 it a front-end question or a back-end question?

7 COMMITTEE MEMBER YEE: Front-end with respect to  
8 what Ted referenced that we pose the question relative to  
9 every asset class.

10 COMMITTEE MEMBER COSTIGAN: Okay. Because I --  
11 similar to what Ms. Yes said and Mr. Jelincic raised when  
12 you look at the questions, I note, you know, the first one  
13 is not, we're not eliminating private equity as a  
14 component, but the concerns I've had over the years again  
15 with private equity is I still don't quite -- I understand  
16 what it is. I still don't understand all the transparency  
17 with the cost. I know some of the issues -- other issues  
18 Mr. Jelincic has raised as it relates to, you know, we're  
19 held over a barrel. We have to agree to certain terms and  
20 conditions, the indemnification, all -- the others I don't  
21 think we see enough private equity managers in front of  
22 this board, whether in closed session or open session.

23 I think the threshold question Ms. Yee is  
24 actually raising is a great question is part of the  
25 transparency is we're are they? I think in the time I've

1 been here, I've seen maybe half a dozen, and they were in  
2 closed session, which I get they like being in closed  
3 session. I don't think they should be in closed session.

4           There are some questions that the public -- back  
5 to this transparency issue. So I think as part of this  
6 overall review, I'd like to hear what is going to be our  
7 process to deal with the -- are we going to see more of  
8 our private equity managers? I recall the first time I  
9 came on this Board -- or the -- since I'm still on it, the  
10 time I came on the Board, I raised a question about one of  
11 our investments and now we're out of it.

12           And I also think that you guys did a great job.  
13 We were a sole investor in a very large private equity  
14 fund. The manager took out more money than our entire  
15 Investment Office made, which raised some significant  
16 concerns, and you guys did the right thing once we brought  
17 transparency into it. But when are we going to see more  
18 managers? When are we going to sort of have that  
19 threshold question on it.

20           Mr., Jones I guess I -- or is that through you?

21           CHAIRPERSON JONES: Yes. Okay. Ted.

22           CHIEF INVESTMENT OFFICER ELIOPOULOS: So I do  
23 think on -- just on whether private equity or not, that  
24 will be answered when you vote on the asset allocation,  
25 and you'll have to weigh all these considerations in your

1 own minds as to whether to include or not. We have as  
2 asked that question, and received feedback from the  
3 Committee that there's no interest in doing that, but I  
4 just want to underscore that's always a potential. If  
5 these concerns that are raised from time to time are  
6 significant enough to redirect staff away from private  
7 equity, that -- we want to know that, and that would --  
8 that -- your opportunity -- the Committee's opportunity to  
9 do that is when you vote on an assets allocation whether  
10 to include it or not.

11 So that -- that will -- I think the timeline that  
12 we have played out -- or laid out is robust and deep  
13 enough to allow for that decision making tree for the  
14 Committee to make that decision.

15 I think on the question of external managers,  
16 that really goes to the question of business model and  
17 decision making that we choose. And, you know, what is  
18 the -- what is the right business model to access - in  
19 this case, private equity. It could apply also to real  
20 assets as well - and what's the role and function of the  
21 Board in overseeing and monitoring the investments as a  
22 whole, and the relationships with each of these managers.

23 So I think that should be part of the discussion  
24 perhaps when we look at business models as well, because  
25 the question is what's the purpose of that review, what is

1 the hoped for opportunity, and gain for engaging in those  
2 types of individual reviews with managers, and what's the  
3 role of the Board, vis-à-vis external managers as a whole,  
4 as well as private equity, and how -- where does the Board  
5 want to put its time and attention in terms of overseeing  
6 the overall portfolio. And that will be a question for  
7 the Board as a whole to answer.

8 COMMITTEE MEMBER COSTIGAN: No. And I appreciate  
9 that priority. I don't want to micromanage the Investment  
10 Office. But some of the main concerns I have is some of  
11 these managers, the large managers run a lot of money for  
12 the organization. I almost think it's part of their  
13 responsibility in running our money is that they show up  
14 once in a while in front of the Board as a fiduciary, I  
15 mean, we're -- you're asking us, as Ms. Yee raised, the  
16 front-end back-end questions on private equity, it would  
17 be -- you know, we hear often too that, well, you can't  
18 take that clause out, because that's the way the industry  
19 is. And then you look at statutes in other states and  
20 there are certain private equity contracts where certain  
21 indemnification clauses are prohibited.

22 I think part of it is more hearing from the  
23 managers, having them sit in front of us and explain from  
24 time to time both their thoughts, because it's an illiquid  
25 asset. I mean a lot of it we're taking -- I know we have

1 to have private equity hit the returns. I get that. I  
2 mean, otherwise you remove this asset class. You push the  
3 returns down, then our members get upset because their  
4 contribution rates get up. That I understand.

5           What I'm just trying to seek is more  
6 transparency, more being to bolster you folks as you deal  
7 with the private equity folks, because we have to shine  
8 the spotlight similar to the folks that were here earlier  
9 on the divestment issue. They want us to put the  
10 spotlight on public equity, the spotlight on divestment.  
11 We need to be doing the same thing with the private equity  
12 manager.

13           So, you know, Mr. Jones, it's just at some point,  
14 even if it's just once or twice a year, some of our larger  
15 managers coming forward, because Mr. Jelincic has raised  
16 some very significant issues in the past, I'd like to just  
17 hear from the private equity managers. Why do they  
18 justify some of the indemnification classes, and is it a  
19 blanket?

20           I mean, at some point, I will be asking on some  
21 of these indemnification, what have we done as a system?  
22 Have we indemnified some of these private equity managers,  
23 because that goes right back into their fee structure  
24 issue.

25           So thank you, Mr. Jones.

1 CHAIRPERSON JONES: Okay. And I think in the  
2 past, we have had, as you suggested, the few that come in  
3 and meet with the Board, and provide an overview of their  
4 strategy, their business, et cetera, and -- but because  
5 some of those questions get into contractual areas, it's  
6 in closed session. So, I mean, I don't see a problem with  
7 continuing that process, periodically bringing in and have  
8 a presentation to the Committee in closed session to  
9 understand where -- how our money is being invested. And  
10 I think that's a legitimate question. Okay.

11 Okay. That's it on the questions that round. Is  
12 that it?

13 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

14 I'll try to propose wrapping this up in just a  
15 moment or two. But essentially, I know we're getting on a  
16 little bit here, a little bit past our planned time frame  
17 for this agenda item.

18 But on page 21 of 30 --

19 --o0o--

20 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

21 -- it's page 320 of iPad, you see the actual  
22 proposed benchmark recommendation. And again, you'll be  
23 making this decision finally with the full ALM -- set of  
24 ALM decisions you'll be making later in the year. But  
25 some guidance now or some feedback from the Committee



1 would be helpful, because we're just about to undertake  
2 the process of gathering the capital market assumptions  
3 for all of the asset classes. And obviously, the  
4 benchmark that you select -- that we select together, will  
5 make a difference in terms of those capital market  
6 assumptions.

7           And you can see what we're proposing here is  
8 essentially to use the same benchmark we used for our  
9 public equity portfolio to use that as the underlying  
10 benchmark for the growth bucket, plus a return premium  
11 that we would determine and bring back to you during the  
12 ALM.

13           What this intends to do is to eliminate sort of  
14 an unintended consequence of the existing benchmark, which  
15 is it's essentially -- it doesn't mimic our -- it doesn't  
16 exactly match our public equity benchmark. And that's  
17 created some performance idiosyncrasies, I guess I'll call  
18 them, between our private equity portfolio and our actual  
19 public equity performance. We use those as -- we use the  
20 public equity market essentially as our opportunity cost  
21 for this asset class. But when the opportunity cost and  
22 the actual investment don't use the same benchmark, it can  
23 become, I guess it would say it adds a level of complexity  
24 that we'd like to eliminate.

25           So we'd like to simplify this and really use the

1 same benchmark for both public equity and private, plus  
2 the return premium that's obviously built into the overall  
3 structure of the total fund.

4           So with that, I'll pause and see if there's any  
5 questions on what we're proposing here.

6           CHAIRPERSON JONES: Okay. Mr. Jelincic.

7           COMMITTEE MEMBER JELINCIC: Well, I actually  
8 think their different assets and ought to be -- have  
9 different benchmarks. But if we say that we're going to  
10 adopt this one benchmark and the -- we're just going to  
11 consider private equity a segment of the global equity,  
12 then isn't our alternative really fixed income, since it's  
13 all one asset class, and if we're not doing equity, then  
14 we're going to be doing fixed income. So doesn't that  
15 become our opportunity cost?

16           MANAGING INVESTMENT DIRECTOR BAGGESEN: When you  
17 get back to the purpose and the role statement I think for  
18 these assets, that would tell you that fixed income is not  
19 the substitute for private equity. So I think this all  
20 depends on the what are you trying to achieve, Mr.  
21 Jelincic, with, you know, the alternatives that are there?

22           So certainly if we're trying to diversify the  
23 characteristics of private equity or public equities, then  
24 fixed income becomes the primary category that creates  
25 diversification, but I don't believe that it acts

1 certainly as a substitute, in most instances anyway, for  
2 that exposure.

3           COMMITTEE MEMBER JELINCIC: But if we're saying  
4 they are the same asset, and therefore we're using the  
5 same benchmark, then aren't well really saying it's -- the  
6 alternative is fixed income. And if we are not saying  
7 they are the same asset, then the question becomes why  
8 should we be using the same benchmark?

9           MANAGING INVESTMENT DIRECTOR BAGGESEN: You  
10 certainly can have that interpretation. I think the  
11 interpretation that we tend to have adopted is, in  
12 essence -- excuse me, private equity as an active  
13 managerial bet, if you will, in relation to the equity  
14 markets.

15           So, to me, this is more a question of, for  
16 example, when Dan's team runs, our benchmark-oriented  
17 exposures internally. And yet, they turn around and hire  
18 an external active manager to try to add value. I think  
19 that the private equity managers, in essence, act as an  
20 alternative to that kind of exercise, because you're  
21 definitely taking a differential set of risks, but it  
22 still resonates to the same kind of exposure. And  
23 ultimately, this gets couched as an equity exposure.  
24 You're not necessarily going in as the creditor to the  
25 organization, you're going in as an equity, so you're in

1 the first loss position in those investments.

2 COMMITTEE MEMBER JELINCIC: And on slide 23, 19  
3 of the iPad you point to some people who have consolidated  
4 the the public and private equity. But these are also  
5 people who run their private equity in-house. And so the  
6 firm is making a decision we want to own all, or a major  
7 portion, of this company, and that's not what we're doing.  
8 So I'm not sure -- I mean, these are interesting, but I'm  
9 not sure how they're relevant.

10 CHIEF INVESTMENT OFFICER ELIOPOULOS: I'd be care  
11 at the characterization at the outset. I think with  
12 respect to Ontario Teachers they're much more of a direct  
13 private equity investor. The Canadian pension plan is a  
14 very significant investor in traditional private equity.  
15 Their fund exposure I think at the workshop we discussed  
16 their actual exposure to the same general partners in  
17 general that we have is very commensurate with our  
18 portfolio.

19 In addition to that, they have a very significant  
20 co-investment program, which isn't really quite the same  
21 as a direct program either, because it's side by side with  
22 those general partners, but it does give more control to  
23 the LP in shaping the overall portfolio exposure. And I  
24 believe -- I'd have to -- there's probably some follow up  
25 we could have during the course of this thing is to look

1 at the New Zealand Fund exposure, but I believe they're  
2 not 100 percent direct investor either.

3           So a lot of times the Canadian model all gets  
4 subsumed into the gist. It's just all hundred percent  
5 direct, and it's much more nuanced than that, and  
6 sometimes it's actually quite the opposite of direct, even  
7 though the direct model is the acronym for it.

8           COMMITTEE MEMBER JELINCIC: And on slide 18, you  
9 talk about the potential to offset the idiosyncratic  
10 exposures, if we use the same. What stops us from doing  
11 that now?

12           MANAGING INVESTMENT DIRECTOR BAGGESEN: There's  
13 really nothing that stops you from doing that now, other  
14 than the fact that we have no accommodation for that in  
15 our existing policies. And certainly the way that we have  
16 expressed the risk tolerances around public equity would  
17 not accommodate that.

18           So literally all we're doing is just talking  
19 about what we would need to do in order to do exactly  
20 that. I mean, we'd have to shift the risk assignments,  
21 the risk thresholds. We'd have to change the flow of  
22 information. So you're absolutely right, there's nothing  
23 that stops us from doing it, except that we're not  
24 equipped yet to do it. We don't have a mindset yet to do  
25 it.

1           So really, it's just shifting that perspective  
2 and saying, okay, this is a part of the job that we want  
3 the staff to take on, in contrast to we've never asked  
4 them to do that.

5           COMMITTEE MEMBER JELINCIC: So it's really we  
6 would need to give you bigger risk parameters around the  
7 index?

8           CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

9           That's right. Right now, public equity I think  
10 has a 50 basis point threshold for its tracking error.  
11 And if we were to really begin to use it as an overall  
12 accommodation for the private equity portfolio, we'd  
13 obviously have to look at that as a combined portfolio in  
14 some way.

15           COMMITTEE MEMBER JELINCIC: And an observation on  
16 Slide 22. The return performance is not, in fact -- or  
17 the premium is not, in fact, all that great. On average,  
18 it's one three when you look at the geometric, which is  
19 what you need to do.

20           But I would also point out that, you know, one  
21 three is nothing to sneeze at. But on the other hand, the  
22 volatility, and the risks that we're taking, and the case  
23 that is the closest I think is about 14 percent increase  
24 in volatility. In the larger case, and I was just  
25 eyeballing it, it looks like it's about 45 percent

1 increase in volatility. And that's a lot of volatility  
2 for 1.3 percent, assuming -- since we've become real kind  
3 of short-term focused in terms of our priorities.

4           MANAGING INVESTMENT DIRECTOR BAGGESEN: Yeah, let  
5 me just comment on what this -- the table of information  
6 is actually putting down. So one is that when you go from  
7 an arithmetic return expectation to a compound return  
8 expectation, the calculation to do that -- and there is  
9 not a precise calculation to do that, so it makes some  
10 assumptions, but one of the elements that impacts that  
11 calculation is the volatility assumption.

12           So, for example, when we last set up our capital  
13 market assumptions in 2013, we basically said public for  
14 equities, we assumed 7.75 rate of return with a volatility  
15 of 17.4 percent. For private equity, we assumed a  
16 volatility of 25 percent. That then backed into a  
17 compound return expectation for private equity of 9.33  
18 percent. So the differences between those two compound  
19 returns numbers was 158 basis points, not 300, but 158.

20           But the volatility measures that are reflected, I  
21 think Mr. Jelincic in the table on page 22, represent, in  
22 essence, a penalty function, because these numbers  
23 typically feed something like an optimization problem.

24           So these volatility numbers bear actually no  
25 resemblance to what you actually see coming through the

1 accounting for private equity. Instead, they are an  
2 assumed level of volatility, whether you have adjusted it  
3 for the presumed leverage, which is a typical kind of an  
4 adjustment that I believe if I asked Wilshire Associates,  
5 I think they would say that they assume an excess of  
6 leverage, so therefore that imputes a volatility.

7 But, in essence, these volatilities act as a  
8 penalty function, so they optimizer doesn't just  
9 completely chop off, right, any public equity investing,  
10 because literally, when you're -- if you're chasing a  
11 return target, you're just going to say invest in this one  
12 asset. And what do you do to basically control for that?

13 So you either set a constraint on the asset, is  
14 one way to control it, which we end up having to do that  
15 anyway, or you basically come up with some kind of a  
16 volatility penalty?

17 But I think the leverage type of adjustment that  
18 you alluded to in some of your earlier comments I think is  
19 what basically drives these volatility numbers that come  
20 out of the different purveyors of this kind of  
21 information.

22 COMMITTEE MEMBER JELINCIC: Yeah, but on the  
23 other hand, we do have to use the expected volatility,  
24 rather than the implied volatility, or the realized  
25 volatility.



1 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

2 Observed.

3 COMMITTEE MEMBER JELINCIC: Observed. I mean,  
4 because you wind up with absurd situations where private  
5 equity has a lower volatility than treasury bills -- I  
6 mean, you know, what world is that in?

7 So thank you.

8 CHAIRPERSON JONES: Ms. Mathur.

9 COMMITTEE MEMBER MATHUR: Thank you.

10 And another reason for doing this I think is that  
11 we've seen a decline in the number of IPOs. And so the  
12 universe of public equities might actually be shrinking  
13 relative to the total universe of companies. And so for  
14 us to have adequate exposure to the companies that are  
15 producing economic activity, we need to be balancing the  
16 two -- the two levers.

17 One -- and I recognize that this is not a perfect  
18 benchmark, but sort of the -- the next best idea that has  
19 come up around benchmarking. We've tried, as you've  
20 noted, many benchmarks over the year -- none of them --  
21 over the years, none of them has completely satisfied us  
22 or been truly reflective of the market. And this is, I  
23 think, probably a better solution.

24 But my question is do we have the same global  
25 exposure in private equity that we do in public equities?

1 Because this is utilizing the FTSE All-World, which  
2 certainly does reflect our public equity exposure. But I  
3 don't think our private equity exposure completely matches  
4 that in terms of the distribution between the U.S. and  
5 non-U.S. And I'm wondering if you'll adjust for that in  
6 some way?

7 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

8 Yeah, that's accurate, Ms. Mathur. It does. And  
9 our private equity portfolio is U.S. weighted towards the  
10 U.S. And I think the previous benchmark attempted to  
11 reflect that. And the challenge is is that the benchmark  
12 as it's presented here is -- the current benchmark, if you  
13 include this return premium, it's not really investable.  
14 We can't really use it as an opportunity cost, which is  
15 why you've seen some of these other large pension  
16 purveyors, like OTP and CPPIB, move away from -- away from  
17 non-investable benchmarks, more towards this idea that  
18 really you want to try to capture economic growth. And  
19 the best benchmark for that that is actually investable  
20 that you can actually use as an opportunity cost, and so  
21 you can properly evaluate the trade-offs is the -- is what  
22 you see here. That's -- but it's recognizing the fact  
23 that it's definitely not a perfect solution.

24 COMMITTEE MEMBER MATHUR: But so you don't -- you  
25 don't -- right now, it doesn't indicate that you're going

1 to adjust, in any way, for global --

2 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

3 That's not our -- not our intention. Now, we  
4 could, as Eric mentioned, it -- this sets up the  
5 possibility that we could adjust for that in this  
6 completion concept. So you could true-up your exposures.  
7 If you felt like you really just wanted your private  
8 equity managers to focus on company selection, you could  
9 take out geographic industry sector exposures using this  
10 completion strategy, that's -- that remains to be seen,  
11 and to build into our overall portfolio structuring  
12 process.

13 So in other words, that's a decision that we  
14 could begin to make consciously. Right now, that's made  
15 for us essentially by the -- by the general partners.

16 COMMITTEE MEMBER MATHUR: Okay. So that would  
17 reflect whatever the Investment Office's view is as to  
18 where value is going to be derived, U.S. or non-U.S., and  
19 which markets, et cetera.

20 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

21 Exactly. Thus, you be --

22 COMMITTEE MEMBER MATHUR: And that's something  
23 you would assess in your -- in the investment strategy  
24 group on some periodic basis?

25 CHIEF OPERATING INVESTMENT OFFICER TOLLETTE:

1           That's exactly right. That's exactly right. And  
2 that's a capability, as we discussed earlier, we didn't  
3 necessarily have that capability that long ago. Prior to  
4 the PEARS system, we didn't necessarily have those types  
5 of exposures at the level of detail we now do. So this is  
6 a capability that even when this last benchmark was  
7 select, I think is in 2011, that wasn't necessarily a  
8 capability that we have -- we had. Now, we do.

9           So this ability to adjust the total growth bucket  
10 to match the exposures that we think we want versus the  
11 exposures we just happen to get. That's a new capability  
12 that we are looking forward to exploring. And as Eric  
13 mentioned, it's one of the underlying motivations for this  
14 idea.

15           COMMITTEE MEMBER MATHUR: Thank you.

16           CHAIRPERSON JONES: Mr. Juarez.

17           ACTING COMMITTEE MEMBER JUAREZ: Yeah, I just  
18 wanted to get clarification on one thing, and that is when  
19 the point was being made about the benchmark being the  
20 same, in effect, they're not the same. You have -- using  
21 the same basis, but then we're going to adjust that basis  
22 when we come to measure private equity, is that correct?

23           MANAGING INVESTMENT DIRECTOR BAGGENSEN: Yeah, let  
24 me take a shot at that, Mr. Juarez. Right now, the  
25 private equity managers that actually control the

1 deployment of the capital into the marketplace, they pay  
2 absolutely no attention to whatever benchmark we assign to  
3 that. They literally just pursue places where they -- you  
4 know, whatever their judgment is, either places that  
5 are -- segments of the marketplace that either undervalued  
6 or assets that are not being optimally utilized. And  
7 certainly, the folks from Meketa could provide --  
8 probably provide more context than I can about what  
9 motivates those managers to pick the companies that they  
10 do.

11           But the one thing that I do know is that they do  
12 not pay any attention to any kind of a benchmark in any  
13 way, shape, or form engaging in that activity. So that  
14 literally just leaves us with a whole array of  
15 idiosyncratic exposures for reasons that are unclear to us  
16 why they exist. So a piece of this is to try to change  
17 the dialogue that happens between us, as CalPERS staff,  
18 and those managers to basically make a judgment, this bet  
19 is intended by the manager, and therefore we want that bet  
20 to stay in the portfolio, or this bet is just an artifact  
21 of a different process and should be controlled in a  
22 different manner.

23           But I would suggest that's a big piece of why  
24 we're making this recommendation as to try to control  
25 something that is now uncontrolled and almost unthought

1 about.

2 ACTING COMMITTEE MEMBER JUAREZ: Thank you.

3 MANAGING INVESTMENT DIRECTOR BIENVENUE: And just  
4 to add to that Eric used thea word "intended". And I  
5 actually think it's a really -- it's a really good word to  
6 use, and it's worth under scoring. This is exactly what  
7 we do in the public equity space that we have managers,  
8 some of who we think actually have some skill in picking  
9 countries and sectors and things like that, and some of  
10 them we actually think it's all about the valuation.

11 And those are anecdotal outcomes of their  
12 portfolio construction possess, and we wind up with  
13 these -- with these risks that may or may not be informed.  
14 So we actually have a whole analysis that we call our  
15 intended exposure analysis. And the managers where we  
16 think -- where they think they have some skill, and we've  
17 seen that we tend to agree with them, because there's  
18 actually two parts of that, both they have to think they  
19 have some skill, but we also have to see some evidence of  
20 that, where we have those, those are exposures that we do  
21 not complete.

22 But where we have others where they're really  
23 just anecdotal and just an outcome of their portfolio  
24 management process, those are exposures that we do tend to  
25 complete and we do that currently in public equity. And

1 this would just -- just broaden that. And again, it would  
2 just increase the collaboration, I would say, between --  
3 between the private equity team and the public equity  
4 team, which I think is always a good thing.

5 CHAIRPERSON JONES: Okay. Thank you. You know,  
6 Mrs. Mathur and Mr. Juarez raised the question about the  
7 benchmark regarding private equity. And Eric said Meketa  
8 may have some views on that. Not today, but -- and I  
9 understand you said because this wasn't a recommendation,  
10 you don't have an opinion letter here to represent their  
11 views.

12 But next time, we would like to see what Meketa's  
13 views are on the industry-wide of answering Mrs. Mathur  
14 and Mr. Juarez question going forward, okay?

15 Thank you.

16 Okay. That's -- not more further questions,  
17 so...

18 The next item on the agenda, Summary of Committee  
19 Direction. And I'm not looking for direction on all the  
20 discussions we had, because that's embodied in your --

21 CHIEF INVESTMENT OFFICER ELIOPOULOS: No, I only  
22 have one.

23 CHAIRPERSON JONES: Okay.

24 CHIEF INVESTMENT OFFICER ELIOPOULOS: But it was  
25 an offer that Wylie made, and I don't know that you

1 directed it or not, and that was to provide the Committee  
2 a link to the last two biennial risk reports that had kind  
3 of --

4 CHAIRPERSON JONES: Oh, yes, yes. Right, right.  
5 Yeah, yeah. Give it to the Committee, right.

6 CHIEF INVESTMENT OFFICER ELIOPOULOS: So if  
7 that's Committee Direction, we'll provide it through our  
8 CEO.

9 CHAIRPERSON JONES: Yeah, right. And the other  
10 one is Mr. Costigan eventually would like to have -- you  
11 know, we've done it before to bring our private equity  
12 managers in to address the Committee, at some future date.

13 CHIEF INVESTMENT OFFICER ELIOPOULOS: Okay.

14 CHAIRPERSON JONES: Okay. So now we have public  
15 comment. We have two requests to speak. We have Mr. Snow  
16 and Ms. Myers. If you could come down to the mic, and you  
17 will have three minutes to make your comments. And  
18 there's a clock right below the name here to let you know  
19 where you are on your presentation.

20 MR. SNOW: My turn?

21 CHAIRPERSON JONES: Yes.

22 MR. SNOW: Thank you for allowing us to be here  
23 and for the public comments section. My name is Brian  
24 Snow. I'm a CalPERS member. I'm also a board member for  
25 the Corona Police Officers Association in Southern



1 California.

2 I don't -- I don't know if apologize is the right  
3 word, but I'm going to try and be direct and pointed in my  
4 comments. And it's not directed to each of you  
5 individually, but more of CalPERS in general. So please  
6 don't take offense to my comments.

7 I have a vested interest in the decisions made by  
8 this Committee, the members of our association, and those  
9 that have retired also have a direct vested interest in  
10 the decisions made here. It affects the rest of our lives  
11 as -- when we receive our retirement. We understand the  
12 job that you guys do, and that it can be difficult at  
13 times.

14 The numbers -- the reason why we're here is a  
15 number of statistics, reports, and strategies regarding  
16 CalPERS investments are troubling to us, enough that my  
17 fellow board member and I decided to come up here to  
18 Sacramento and to address this Board, and this Committee.

19 Politics seems to have become a part of the  
20 Investment Strategy. And while you may or may not see it,  
21 cities and counties are having financial challenges as a  
22 direct result of the seemingly failing investment  
23 strategies. The fiduciary responsibilities as -- she's  
24 not here anymore, but she stated it correctly, the  
25 fiduciary responsibilities of CalPERS is to the CalPERS

1 members to fund their retirements.

2 I might add that the fiduciary duty does not  
3 include special interest groups, does not include activist  
4 or political motivations. CalPERS is not a social  
5 activist group. And from the sounds of it, it sounds like  
6 you guys do a wonderful job in the research. A lot of  
7 stuff is over my head, and we trust that you guys make  
8 those correct decisions and do the correct research to  
9 make those decisions.

10 A 0.6 return investment is completely  
11 unacceptable and embarrassing, especially when it seems  
12 that other funds are seeing much better returns. The  
13 divestment practices of CalPERS are irresponsible towards  
14 CalPERS members and to your fiduciary duties and are  
15 killing the fund.

16 Divestment is not a sustainable practice and does  
17 nothing to benefit CalPERS members, but rather only  
18 satisfies the interests of activists and politics. The  
19 impact not only affects CalPERS members, but also services  
20 that CalPERS members provide due to cutbacks in personnel  
21 and/or services. Public confidence is decreasing and  
22 frustration is increasing due to the negative attention  
23 pensions are attracting all from CalPERS practices.

24 Public agencies have been doing their best to  
25 balance budgets and largely have been successful. But

1 shortfalls by CalPERS investments are tipping the scale.

2           It is your fiduciary duty to look out for the  
3 best interests of CalPERS members, and we appreciate if  
4 you would change and review your divestment procedures.

5           Thank you.

6           CHAIRPERSON JONES: Thank you for your comments.

7           MS. MYERS: Thank you, Chairman Jones and the  
8 Board members for the opportunity to speak today. My name  
9 is Melanie Myers. I work for the American Federation of  
10 Teachers on capital stewardship issues. As you may know,  
11 our union represents about 8,000 school employees who are  
12 CalPERS members.

13           In December, you heard from two teachers who work  
14 for Alliance for College-Ready Public Schools in Los  
15 Angeles about their employer's campaign to harass and  
16 intimidate those educators from forming a union, and those  
17 educators hopes to have the same rights to advocate  
18 publicly for their students as all other public school  
19 educators and staff in California currently enjoy.

20           I want to thank the Board for your concern -- the  
21 concern that you expressed regarding this matter. The  
22 teachers deeply appreciate CalPERS staff, and the Board's  
23 willingness to engage on these difficult issues. As you  
24 may recall, the founder of Alliance is Antony Ressler of  
25 Ares Management, which manages more than \$1 billion in

1 CalPERS private equity portfolio, and continues to be an  
2 active donor to Alliance, as does Ares Management itself,  
3 through its matching funds donation policy.

4 I'd like to share with you today some recent  
5 developments on the educators' efforts to organization a  
6 union at Alliance. Before I do, it's important to note  
7 that what happens with charter school growth in California  
8 can, and likely will, have an impact directly on CalPERS  
9 directly and on the health of CalPERS school pool.

10 As you noted in your annual review of funding  
11 levels and risks released in September, the growth of  
12 charter schools in California can lead to a decline in  
13 CalPERS participants for various reasons staff  
14 articulated. It was acknowledged that the results of an  
15 escalating loss of participants could be disastrous for  
16 your school pool. And with employer contribution rates  
17 increasing and strong federal level interest in pushing  
18 school privatization, we see the incentives mounting  
19 rapidly for charter school operators like Alliance to opt  
20 out of DB pension.

21 In March, the Public Employees Relation --  
22 Relations Board issued yet another complaint against  
23 Alliance, finding that Alliance broke the law by  
24 threatening to arrest an Alliance teacher for distributing  
25 union leaflets, and for threatening that if they organize

1 a union, class sizes for students would increase and  
2 teachers would be laid off.

3           According to the findings of a State audit  
4 released just last week, Alliance has spent a million  
5 dollars opposing teachers' efforts to form a union, all  
6 money that should have been spent on improving educational  
7 experience of its students.

8           And equally concerning, a report released this  
9 week by In the Public Interest has found that Alliance --  
10 the Alliance Network a Charter Schools has used more than  
11 110 million in federal and State taxpayer dollars to amass  
12 a growing empire of privately owned Los Angeles real  
13 estate now worth in excess of 200 million.

14           Given your fiduciary duty to generate sustainable  
15 risk-adjusted returns on behalf of plan participants, I  
16 also wanted to bring to the Board's attention, a recently  
17 released report which found that Ares Management  
18 underperforms relative to peers and relative to benchmarks  
19 in both the real estate and private equity space. I have  
20 shared that report with the Chair. And it draws on public  
21 data from Preqin is authored by Unite Here. And I hope  
22 that you can take a moment to review it.

23           Thank you so much. We really appreciate your  
24 efforts.

25           CHAIRPERSON JONES: Thank you for your comments.

1 And I understand staff has met with you in the past.

2 Okay.

3 Okay. Well, thank you. And so we're going to  
4 adjourn the open session and break for lunch and return  
5 for closed session at 2:15.

6 Does that work for everyone?

7 (Thereupon California Public Employees'  
8 Retirement System, Investment Committee  
9 meeting open session adjourned at 1:29 p.m.)

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## 1 C E R T I F I C A T E O F R E P O R T E R

2 I, JAMES F. PETERS, a Certified Shorthand  
3 Reporter of the State of California, do hereby certify:

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

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

14 IN WITNESS WHEREOF, I have hereunto set my hand  
15 this 21st day of April, 2017.

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