

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

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LINCOLN PLAZA NORTH
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9:45 A.M.

JAMES F. PETERS, CSR
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APPEARANCES

COMMITTEE MEMBERS:

David Miller, Chairperson

Rob Feckner, Vice Chairperson

Fiona Ma, represented by Frank Ruffino

Lisa Middleton

Eraina Ortega

Jose Luis Pacheco

Ramon Rubalcava

Theresa Taylor

Mullissa Willette

Betty Yee

STAFF:

Marcie Frost, Chief Executive Officer

Nicole Musicco, Chief Investment Officer

Matt Jacobs, General Counsel

James Andrus, Interim Managing Investment Director

Dan Bienvenue, Deputy Chief Investment Officer

Sarah Corr, Managing Investment Director

Amy Deming, Investment Director

Sterling Gunn, Managing Investment Director

Michael Krimm, Investment Director

Simiso Nzima, Managing Investment Director

APPEARANCES CONTINUED

STAFF:

Christina Ortega, Committee Secretary

Christine Reese, Investment Director

Jake Tuttle, Investment Director

Lou Zahorak, Investment Director

ALSO PRESENT:

Tim Behrens, California State Retirees

J.J. Jelincic

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1 COMMITTEE SECRETARY ORTEGA: Betty Yee?

2 COMMITTEE MEMBER YEE: Here.

3 CHAIRPERSON MILLER: Okay. Thank you.

4 That brings us to Item 2, our executive report
5 from our Chief Investment Officer Nicole Musicco.

6 And we have here remotely, so as you can see.

7 Welcome, Nicole. I'll hand it over to you.

8 CHIEF INVESTMENT OFFICER MUSICCO: Thank you very
9 much. Good morning, Chair Miller and members of the
10 Investment Committee. It goes without saying I'm very
11 disappointed at not being in the room with you today and I
12 really appreciate the accommodations that have been made.
13 I'll do my best to demonstrate my energy virtually here as
14 I share with you my journey through what's now I think the
15 76th day that I've been at CalPERS.

16 It's fair to the say the timing of my first few
17 months has been interesting. We are in the midst of
18 experiencing a once-in-generation change in the macro
19 environment after an era of capital superabundance and 40
20 years of decreasing interest rates. The most
21 consequential has been the change in geopolitics and a
22 decrease in globalization, which has triggered inflation
23 and tremendous volatility.

24 Then you layer in the pandemic where we've lock
25 down entire nations and experience a hundred percent

1 remote work for an extended period of time. While we are
2 certainly feeling those shocks in 2022, it's been a brutal
3 year for equities and treasuries as we battle through
4 inflation, geopolitics, and supply chain shocks.

5 So as a result, what you will hear from us today
6 really does center around how do we build innovation and
7 resiliency into our portfolio during these very volatile
8 times.

9 But first let me set the stage for today, with
10 just a quick recap on performance. Just a few short
11 months ago, the PERF was closing up the calendar year with
12 a NAV of approximately 500 billion and fiscal year-to-date
13 returns of almost six percent. And then the wild
14 volatility ride really kicked in sending shocks across all
15 asset classes.

16 For example, what we've seen in our equities
17 portfolio, higher inflation, and rising interest rates
18 have impacted profitability and future earnings growth.
19 And higher interest rates have pulled down the net from
20 the value of equities, driving equities down.

21 Similarly for fixed income, higher inflation
22 pushed treasury yields higher. Greater uncertainty is
23 wide in spreads and we're all -- and we are seeing this
24 globally, not just in the (inaudible)

25 And in private markets, not immune to these

1 market forces, they are somewhat less vulnerable in the
2 short term, albeit exposed to higher financing costs.
3 Real assets, however, will offer some inflation
4 protection.

5 The impact of this volatility, as you saw in the
6 March 31 results, had the PERF down -- PERF NAV down four
7 percent to 479 billion with fiscal year-to-date returns of
8 two percent. Unfortunately, though as of early June, PERF
9 NAV is hovering around 450 billion, which is approximately
10 a 10 percent decline from the beginning of year in line
11 with broader markets declines.

12 Last week alone, we all saw the S&P down
13 approximately five percent, which was the second worst
14 week since the beginning of the calendar year. And
15 overall, markets have been experiencing higher
16 correlations between equities and bond segments, so
17 diversification just hasn't played out as is generally
18 expected. As a result, we will need to be prepared for
19 continued market volatility and even further drawdowns in
20 the short and the immediate term.

21 So where do we go from here? What we hope to be
22 able to convey to you today is the following. We have
23 navigated volatile markets like this before. The current
24 strategic asset allocation is still the right choice to
25 deliver the pension promise to our two million members and

1 we will continue to evolve our strategy as appropriate,
2 looking to mitigate risk and take advantage of market
3 dislocation.

4 My commitment to you is to be open and
5 transparent on what's going on in our portfolio and across
6 our team. And my goal is to better understand where we
7 can improve our engagement and transparency with the Board
8 overall to further strengthen our partnership.

9 And we do have a full agenda today. After the
10 consent items, we'll have a couple action items for your
11 consideration. First will be -- first will be the
12 strategic asset allocations of the supplemental income
13 plans. Then you will see a second reading, revisions to
14 some of our Investment policies. We'll take a deeper dive
15 into market dynamics and portfolio implications to set the
16 stage. And then I will share observations from the first
17 70-day listening tour.

18 So with that, I conclude my first Executive
19 report. Thank you very much for the opportunity.

20 CHAIRPERSON MILLER: Thank you.

21 I don't seem to have any questions from the
22 Board, so we'll -- it bring us to our action consent
23 items, 3a and 3b, Investment Committee timed agenda and
24 open session meeting minutes. What's the pleasure of the
25 Committee?

1 COMMITTEE MEMBER PACHECO: (Hand raised.)

2 CHAIRPERSON MILLER: Moved by Mr. Pacheco.

3 VICE CHAIRPERSON FECKNER: Second.

4 CHAIRPERSON MILLER: Second by Mr. Feckner.

5 So I'll call for the question.

6 All in favor?

7 (Ayes.)

8 CHAIRPERSON MILLER: No nays. No abstentions.

9 Motion carries.

10 That moves us to our information consent items.

11 I don't see any requests to pull anything.

12 So hearing none, we move to action agenda items.

13 And we'll start with our asset liability
14 management of our affiliate funds and supplemental income
15 plans. So, Mr. Gunn and Ms. Reese are coming up.

16 Dan

17 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Yes.

18 Thank you, Mr. Chair. So as you say, this is an action
19 item. It supports the strategic asset allocation for the
20 supplemental income plans and Christine Reese will be
21 presenting this item. So with that, I'll turn it over to
22 Christine.

23 (Thereupon a slide presentation.)

24 INVESTMENT DIRECTOR REESE: Good morning, Mr.

25 Chair and members of the Committee. Christine Reese,

1 CalPERS team member. Before I get started with the
2 presentation, I want to just take a moment and thank all
3 of my colleagues who have worked on this initiative. It
4 is -- it was a very large team of colleagues, both
5 internally to CalPERS and externally that have worked on
6 this to bring this forward to recommendation.

7 And do you have that clicker?

8 Okay. So I'll just talk --

9 --o0o--

10 INVESTMENT DIRECTOR REESE: The supplemental
11 income plans, which are defined contribution savings
12 vehicles for individuals has a suite of age-based target
13 date funds. This action agenda item is a strategic asset
14 allocation review and recommendation for those target date
15 funds -- for the target day fund glide path. Excuse me.

16 The glide path sets the allocation and derisking
17 path for the 11 target date funds we have in the program.
18 The analysis and review were developed in partnership with
19 RVK, a consultant with expertise in defined contribution
20 plans, and glide path analysis and design. And the
21 primary objective of analyzing the glide path is to select
22 an asset allocation that minimizes income shortfall in
23 retirement and maximizes income replacement while trying
24 to minimize costs.

25 Can we go to the next page, please.

1 --o0o--

2 INVESTMENT DIRECTOR REESE: Thank you.

3 The current glide path gets close to this
4 objectives -- this objective, but a few changes are
5 recommended to incrementally improve the estimated
6 retirement outcomes.

7 So the presentation has three sections. I will
8 begin with a structural and investment overview the
9 supplemental income plans, which I will refer to as the
10 SIP. Then I will review the general design and benefits
11 of a glide path. And lastly, I will review the SIP's
12 current glide path and the strategic asset allocation
13 recommendation.

14 So if we could move to slide 4.

15 --o0o--

16 INVESTMENT DIRECTOR REESE: Thank you. So the
17 SIP has two plans within it. The first is the Public
18 Employees Deferred Compensation Fund, which is a 457 Plan.
19 This plan has two options, a pre-tax retirement savings,
20 or for employers who sign up, it has an after-tax savings
21 which is a Roth program. This plan has over 800 employers
22 and more than 32,000 participants and is above 2 million
23 in assets.

24 The Supplemental Contributions Program, which is
25 the second one in the SIP is an after-tax retirement

1 savings with earnings tax deferred, which is a little bit
2 different than a Roth, where earnings are tax free, so
3 it's a slightly different type of program. It's open to
4 different kinds of participants as well. This program has
5 more than 6,000 participants and about 125 million in
6 assets.

7 At the bottom of this graphic, it shows the
8 supplemental plan income funds. And every participant
9 across both of these plans can invest in the investment
10 fund lineup, which comprise target date funds, core funds,
11 and a self-managed account, which I will explain further
12 on the next page.

13 --o0o--

14 INVESTMENT DIRECTOR REESE: So within the
15 investment fund lineup, we have the three categories. The
16 lineup is intended to provide options for participants
17 based on how involved they would like to be and how
18 comfortable they are managing their own asset allocation
19 and diversification. The 11 target date funds offered are
20 age-based funds wherein the asset allocation is set,
21 rebalances quarterly, and derisked over time by CalPERS.

22 The six core funds that are available are broad
23 market funds that participants can select to manage their
24 own allocation. And lastly, there's a self-managed
25 account, which is a brokerage window that offers mutual

1 funds and certificates of deposit. Participants can
2 select this option if they would like to have investments
3 beyond what is available in our investment lineup.

4 Can we move to the next slide, please.

5 --o0o--

6 INVESTMENT DIRECTOR REESE: Thank you.

7 When we look at how participants invest in the
8 lineup, we see that almost 70 percent of participants are
9 100 percent invested in the target date funds. And the
10 target date funds currently represent 75 percent of
11 current contributions, and 54 percent of overall balances.
12 This is up from 2018 when the target date fund
13 contributions were 67 percent and represented 46 percent
14 of balances.

15 So for the core funds, while contributions and
16 percentages of balances are decreasing, they still have a
17 role to play for participants that, as stated earlier, may
18 want to manage their asset allocation or as supplemental
19 investments if somebody is in a target date fund and they
20 would like to have an additional allocation to one or more
21 funds, core funds, they can do that.

22 The self-managed account has typically seen a
23 usage of about two percent. And that has remained
24 constant and is in line with industry averages.

25 So next, we'll talk about the glide path design

1 on the next slide.

2 --o0o--

3 INVESTMENT DIRECTOR REESE: Thank you.

4 So this chart shows two glide paths and I'll
5 spend a moment just walking through the graphic. Okay.
6 So the chart shows two glide paths. On the vertical axis,
7 we show the percentage of risky assets in the allocation.
8 And across the horizontal axis, we have the years two --
9 the number of years before and after retirement.

10 The retirement date is indicated by the dashed
11 line. So for each of these sample glide paths, there are
12 three sections. On the left is the plateau, which is a
13 high allocation to riskier assets, which stays constant
14 over time. The second section is the derisking part of
15 the glide path, which brings down that allocation to
16 riskier assets over time. And then the third part is the
17 landing phase, which is where the glide path lands. And
18 at that point, the allocation has no further changes.

19 So these two glide paths, the one -- the top
20 glide path is the glide through, and what that means is
21 that the derisking doesn't stop at the retirement date.
22 It actually goes through into retirement and continues to
23 derisk, which means that at retirement it's a bit riskier
24 than the bottom glide path, which is considered a to glide
25 path. So the to glide paths ends exactly at retirement

1 and is much lower risk at that point.

2 The SIP Program has a through glide path, and
3 that's supported by both participant demographics as well
4 as kind of industry information that participants are not
5 taking distributions until later in their retirement. So
6 they -- they're not taking distributions immediately after
7 retirement. And we'll get a little bit more into the
8 distribution analysis further in the presentation.

9 Okay. On the next page --

10 --o0o--

11 INVESTMENT DIRECTOR REESE: -- we show the
12 benefits of a glide path, which in summary is that
13 participants have a professionally managed asset
14 allocation throughout their career. And the funds in
15 which we have in the program are each -- each individual
16 fund is diversified in and of itself, in that they're very
17 broad market funds. And the diversification, the
18 risk-adjusted allocation are all very beneficial to
19 participants. And we've seen -- as we've seen, there's
20 been a large take-up in the -- in the target date funds as
21 well. So -- so our participants are seeing value there as
22 well.

23 If we move to the next page --

24 --o0o--

25 INVESTMENT DIRECTOR REESE: -- we'll just go

1 through the process of building the glide path, which
2 includes on the left projecting the balance accumulation.
3 So this part involves taking a look at our capital market
4 assumptions, which for this analysis are the same as we
5 used for the Public Employee Retirement Fund and all of
6 the other affiliate fund.

7 And then looking at plan demographics, so we
8 actually provide to RVK a detailed data -- detailed data
9 about our participants in our program. And that
10 information is sourced both from CalPERS in terms of
11 salary, pension, formulas, et cetera, as well as from our
12 third-party administrator, Voya who supplies information
13 about distribution patterns of our participants, how many
14 people remain in the program after retirement and those
15 types of data.

16 So after the balance accumulation is projected,
17 the next part is to project the income adequacy. And that
18 is based on two types of demographics, some are U.S. --
19 three types actually, some are U.S. demographics and
20 California demographics for the income replacement goal,
21 and household life expectancies. And then plan
22 demographics, we can see -- we can see whether individuals
23 have Social Security or not, and as well as the pension,
24 as well as annual plan distributions, which we supply as
25 well.

1 The third component is to take all of that
2 information, run it through the optimization program
3 process repeating 7,000 times and ranking the asset
4 allocations. So the objective of that optimization is to
5 minimize the shortfall risk while maximizing income in
6 retirement. And then through this entire process,
7 there's -- you know, it's a feedback loop as we go through
8 this process with RVK.

9 So next, we'll review the SIP glide path design
10 and recommendations.

11 --o0o--

12 INVESTMENT DIRECTOR REESE: So we're moving on
13 from generic glide path description to our actual -- our
14 actual analysis of our glide path and then the
15 recommendation. So when we look at this slide, this shows
16 the demographic inputs and assumptions that went into the
17 study. The projection period if you -- if we had a full
18 career person is estimated to start at age 21 and end at
19 62.

20 So we do see participants in our program in the
21 21 -- age 21 cohort. And age 62 is aligned with
22 retirement -- the two percent at 62 formula, which the
23 majority of our participants in the SIP have. Now, there
24 are other pension formulas and they are more beneficial
25 than the two percent at 62. So this is a conservative way

1 taking distributions as soon as they retire or are they
2 waiting. And what we find is that they're waiting. And
3 so the through glide path is supportive of that withdrawal
4 behavior in terms of they can -- they still have time to
5 derisk till that seven years after retirement.

6 Okay. Moving on to what our glide looks like.

7 --o0o--

8 INVESTMENT DIRECTOR REESE: Just a moment. Okay.
9 The -- the top part of the chart shows the four asset
10 classes. And then along the -- it shows the allocation on
11 the vertical axis and on the horizontal axis, it shows the
12 target -- each of the target date funds. So you have 2065
13 on the right -- I'm sorry left, and then the income fund
14 on the right.

15 As you can see, the allocation has a higher
16 allocation to risk assets, which is the blue for global
17 equity tea. And it maintains those asset allocations in
18 the plateau period up until the 2040 fund. At the 2040
19 fund, about 20 years away from retirement, the glide path
20 starts derisking and bringing the equity allocation down
21 and replacing it with fixed income, as well as some cash
22 and real assets.

23 As we get to retirement, which is -- we get to
24 the landing point, sorry, the allocation to global
25 equities is at a 32 percent level with fixed income at 55.

1 And those remain constant throughout the rest of the
2 person's retirement.

3 All right. If we look at the results --

4 --o0o--

5 INVESTMENT DIRECTOR REESE: -- of the recommended
6 glide path for what we would consider a median
7 participant, the -- all of the -- I should -- I'm sorry,
8 not all -- most of the indicators are improved. The
9 return is lightly improved and the expected volatility
10 goes up slightly as well. So that's the one spot that
11 didn't -- that doesn't show an improvement. The ending
12 balance for the full career person is still in this kind
13 of same 281,000 range. It didn't change much, but did
14 improve.

15 And I would just like to call out here that this
16 is for someone hypothetically that starts with the program
17 at age 21, retires at 62. So our current demographics we
18 look at as well. And what we're seeing is we have
19 approximately about a 22 year public employment career.
20 And so Social Security is assumed for the first portion of
21 the person's career and then not for the second part.

22 And then the ending balance for the full career
23 person is more like 45,000. And the SIP replacement
24 that -- replacement of income that the SIP represents is
25 about 6.6 percent.

1 So with this glide path, the replacement income
2 is 70.9 percent, so slightly improved, but not getting to
3 that 83 percent. Additionally -- sorry, there's two 83s.
4 The 83 is the replacement rate. There is also an 83
5 percent chance that an individual participant will
6 completely drawdown their SIP balances in retirement. And
7 the years before drawdown are 11. And that's improved
8 from 10 the last time we did the analysis.

9 The next number is 3.2 percent, and that is that
10 if participants additionally contributed 3.2 percent above
11 what they already are contributing, they could bring down
12 that 83 percent chance of shortfall down to 50 percent.
13 So savings is obviously a big component of all of these
14 plans.

15 On the next page --

16 --o0o--

17 INVESTMENT DIRECTOR REESE: -- we just look at
18 the actual shifts. And I'm going to focus on the bottom
19 table. And as you can see, the actual asset allocation
20 shift across all of the asset classes and funds ranges
21 from a two percent shift to a five percent shift. So
22 really just some improvements around the edges. And what
23 that says is that our current glide path is -- is a pretty
24 good match, but these improvements in the -- in the asset
25 allocation will improve it incrementally.

1 I would also like to point out that the 2065 fund
2 on the left is not opened yet. We will be opening it as
3 part of this implementation. That's why it says no shift.
4 And then on the right, the 2015 fund, which is in 2022,
5 seven years past the retirement date, has now landed at
6 its final allocation. And those participants will be
7 moved into the income fund, which has the same allocation.
8 So the 2015 fund will close, the 2065 fund will open, and
9 we will remain with the 11 funds.

10 --o0o--

11 INVESTMENT DIRECTOR REESE: So that brings us to
12 the recommendation, which is to adopt the updated glide
13 path for the supplemental income plans. And if adopted,
14 we would move into implementation. We've already started
15 some planning, but we'll continue our planning. We'll
16 actually work with the program team to launch an employer
17 and participant communication campaign to let them know
18 about the changes.

19 We'll be updating the Investment Policy and -- as
20 well as all of our reports internally that reflect the
21 glide path and asset allocation. As I mentioned, we'll be
22 sunsetting the 2015 fund and opening the 2065. And the
23 effective date for all of this will be October 1st of this
24 year.

25 So that concludes my presentation and I'm happy

1 to take any questions.

2 CHAIRPERSON MILLER: Okay. Thank you.

3 I'm not seeing any requests to speak, but that
4 could be operator error on my part, so I'm going to check
5 with my colleagues and see -- okay, Mr. Rubalcava.

6 Okay. Let me hit the button and see if this
7 will...

8 There it is. Okay. There we go. Got you on.

9 Oh, there you go.

10 COMMITTEE MEMBER RUBALCAVA: Thank you.

11 I didn't think I was going to be the only one
12 with questions, so I figured I might as well -- I wanted
13 to thank -- thank you, Christine. I want to compliment
14 you on the good work. And I saw the -- the consultant
15 letter also supports the recommendation. I noticed -- my
16 question coming in and reading -- anyway, you addressed
17 it, which is -- on slides 10 and 12 that in the -- in
18 determining the income replacement, you do look into
19 Social Security and their CalPERS pension, so that's
20 very --

21 INVESTMENT DIRECTOR REESE: Exactly. We wanted
22 to take --

23 COMMITTEE MEMBER RUBALCAVA: -- admirable.

24 INVESTMENT DIRECTOR REESE: -- a conservative
25 approach.

1 COMMITTEE MEMBER RUBALCAVA: So that's good. So
2 I want to thank you for that.

3 INVESTMENT DIRECTOR REESE: You're welcome.

4 COMMITTEE MEMBER RUBALCAVA: Mr. Miller, if
5 there's no other questions, I would move to approve the
6 recommendations.

7 CHAIRPERSON MILLER: Yeah. Well, again, before
8 we go to that, I just want to thank you for the
9 presentation. The fact that it was so understandable,
10 clear, it covered, everything I mean, great work by you
11 and the team, and appreciate it. And at this point, I'll
12 entertain a motion. I think Mr. Rubalcava made the
13 motion.

14 COMMITTEE MEMBER PACHECO: Hand.

15 COMMITTEE MEMBER TAYLOR: Second.

16 CHAIRPERSON MILLER: Question, Mr. Pacheco.
17 Let's cover your question first.

18 COMMITTEE MEMBER PACHECO: Thank you very much
19 for the presentation. Yes, the presentation was
20 excellent. I really enjoyed it. I just wanted to ask
21 about the communication aspect with the employers and the
22 participants, so after October 1st, will we -- we'll be
23 setting up a circular letter, is that -- is that how we'll
24 communicate it or is it going to be communicated in
25 other -- in other forms?

1 INVESTMENT DIRECTOR REESE: Yes, other forms and
2 earlier. So we will actually start the communication
3 campaign in advance of the actual shift.

4 COMMITTEE MEMBER PACHECO: Um-hmm.

5 INVESTMENT DIRECTOR REESE: And we will be
6 working with our third-party administrator Voya, who
7 handles the participant communication campaign. And we
8 send out kind of the -- the official kind of brochures
9 that have all of that information. And then our program
10 team will be working with the employers. I'm not exactly
11 sure. It's more than a circular letter. I think we
12 definitely kind of target the employers that are in the
13 program, but that's not to say there won't be a circular
14 letter at some point, but we would definitely do something
15 in addition to that.

16 COMMITTEE MEMBER PACHECO: Would we also, in
17 addition to that, be presenting this information at the
18 Employer Forum, I believe, is CalPERS Employer -- in
19 November as well?

20 INVESTMENT DIRECTOR REESE: I'm not certain, but
21 I can check with the program team and make that suggestion

22 COMMITTEE MEMBER PACHECO: Very good. Thank you.

23 INVESTMENT DIRECTOR REESE: You're welcome.

24 CHAIRPERSON MILLER: Okay. I also want to check
25 and see if we have any requests to speak from the public

1 on this item.

2 COMMITTEE SECRETARY ORTEGA: (Shakes head.)

3 CHAIRPERSON MILLER: Okay. With that, I've got a
4 motion and I've got a second from Ms. Taylor. And so with
5 that, if there's not further discussion, I'll call for the
6 question.

7 Is this an electric vote or --

8 VICE CHAIRPERSON FECKNER: It's a voice.

9 CHAIRPERSON MILLER: Voice vote. Okay. So all
10 in favor of the motion to accept the recommendations and
11 move forward?

12 (Ayes.)

13 CHAIRPERSON MILLER: No nays?

14 No abstentions.

15 The motion passes. Thank you very much.
16 Appreciate it.

17 INVESTMENT DIRECTOR REESE: Thank you.

18 CHAIRPERSON MILLER: And with that, we come to
19 action Item 5b, revisions to the Total Fund Policy and
20 Global Fixed Income Policy. This is a second reading.
21 And Dan.

22 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Yes.
23 Thank you, Mr. Chair and thanks to Christine and the team.

24 So next, as you say, we have our second action
25 item of the day. Amy Deming will be walking us through

1 our second read of the policy update reflecting the new
2 strategic asset allocation for the PERF. This will look
3 exactly like what was expected and directed coming out of
4 the March meeting. But rather than steal any of Amy's
5 thunder. I will turn it to her and let her walk us
6 through the item

7 CHAIRPERSON MILLER: Okay. Thank you.

8 (Thereupon a slide presentation.)

9 INVESTMENT DIRECTOR DEMING: Thanks, Dan.

10 Amy Deming, CalPERS team member. I'm pleased to
11 be here this morning.

12 So we're seeking approval from the Investment
13 Committee regarding the proposed revisions to policy that
14 came out of the November Board-approved Strategic Asset
15 Allocation. These are the changes to the Total Fund and
16 Fixed Income Policies that we think we need in order to
17 carry out the strategic asset allocation.

18 And first read was in March. We've incorporated
19 your feedback and we're here for the second read today.

20 There you go.

21 --o0o--

22 INVESTMENT DIRECTOR DEMING: Just as a reminder,
23 in November, the proposed changes to the policy are coming
24 out of the November strategic asset allocation, and that
25 includes the addition of private debt as a new asset

1 class. Private equity and real assets have been increased
2 in allocation. We've introduced strategic leverage and
3 we've adjusted the public market exposures commensurately.

4 --o0o--

5 INVESTMENT DIRECTOR DEMING: Just to reorient
6 everybody from March. We had two key areas of Total Fund
7 Policy changes. The first was the -- with respect to
8 asset allocation, the second was with respect to
9 investment leverage. All of this is unchanged from March.
10 So not -- not much to -- not much to be too worried about
11 there.

12 --o0o--

13 INVESTMENT DIRECTOR DEMING: With respect to the
14 program area policy changes, again, largely unchanged.
15 Global fixed income all the same from March. Private
16 debt, there was an area of board direction the last bullet
17 point on the page, which we have taken the Committee's
18 feedback and incorporated.

19 And that leads me to my -- to my next area.

20 --o0o--

21 INVESTMENT DIRECTOR DEMING: The two areas of
22 board direction from March. We've incorporated these two
23 areas. The first being a consolidation of the stand-alone
24 asset class policies into the Total Fund Policy. So what
25 you would expect to see here is no content change, removed

1 redundancies. I think, you know, table of contents,
2 glossary, but all unchanged and melded into one Total Fund
3 Policy that's hopefully easier to read for everybody and
4 less complicated.

5 The second area of Board direction that we took
6 your feedback on was with respect to the private debt
7 program. We worked with Wilshire. We've narrowed the
8 strategy ranges and targets, and incorporated the
9 appropriate level of diversification for the strategy
10 going forward as we grow.

11 With that being said, I think I'm happy to hear
12 your questions.

13 CHAIRPERSON MILLER: Okay. I'm looking and
14 seeing no request -- oh, there we do. Controller Yee.

15 Let me try it again. One more time. Third is a
16 charm. There we go.

17 COMMITTEE MEMBER YEE: Okay. Thank you. Thank
18 you very much for the presentation and bring this back.
19 My question really relates to the area of -- regarding the
20 prudent person opinion and the guidelines around those.
21 Are those going to be brought back at some point?

22 CHIEF EXECUTIVE OFFICER FROST: (Nods head.)

23 COMMITTEE MEMBER YEE: Yeah. And then just kind
24 of what the current thinking is around those relative to
25 whether the policy will align with the prudent person

1 opinions in private equity.

2 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: So,
3 yes, the plan is for those to come back in September --

4 COMMITTEE MEMBER YEE: September. Okay.

5 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: -- as
6 a first read and then it would be November for a second
7 read.

8 COMMITTEE MEMBER YEE: Okay.

9 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Along
10 the way getting your feedback to make sure that we've --
11 that we strike that right balance of enabling the
12 strategic asset allocation, while also maintaining proper
13 governance.

14 COMMITTEE MEMBER YEE: Yeah. Okay. So that's
15 the September time frame.

16 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:
17 September and November -- September 1st read.

18 COMMITTEE MEMBER YEE: Okay. Good. Thank you.
19 Thank you, Mr. Chair.

20 CHAIRPERSON MILLER: Okay. I have no other
21 requests to speak from Board members.

22 So I -- I -- it's an action item, so --

23 COMMITTEE MEMBER TAYLOR: Move approval.

24 CHAIRPERSON MILLER: Okay. Moved by Taylor.

25 COMMITTEE MEMBER PACHECO: (Hand raised.)

1 CHAIRPERSON MILLER: And I have a second by Mr.
2 Pacheco. And I believe we have a public comment on this
3 before we conclude discussion and take a vote. So I would
4 call Mr. Jelincic down to the microphone. And I believe
5 we'll have a clock set up. And, Mr. Jelincic, I believe
6 you'll have what two minutes. And we'll start the clock
7 once you get settled in and begin to speak.

8 Okay. You have the floor, sir.

9 MR. JELINCIC: J.J. Jelincic, beneficiary. This
10 policy is clearly within the Board's authority. Whether
11 it is consistent with the Board's fiduciary duty is an
12 open question.

13 Increasing the risk in this environment is not
14 something I would recommend. I would point out reducing
15 the exposure to factor weighted investing and the
16 private -- or in the public equity, that is a program that
17 tends to do best in volatile markets. In case you haven't
18 noticed we're in one. And I would suggest that you really
19 give some more thought to whether to do that.

20 The Investment Belief says you will take risk
21 only when you are paid for it. Even the industry does not
22 claim that private equity is a high returning
23 risk-adjusted asset. Just think how valuable Tesla would
24 be and how much money we would have made if Elon Musk
25 could unilaterally define what the value is. And yet,

1 that's exactly what you deal with in private equity.

2 Increase -- and I will again point out that when
3 you go into private debt, you are saying we will make
4 loans to people that can't borrow from banks and can't
5 borrow in the public market. In many ways, you're
6 doubling down on private equity, because they are the big
7 users of private at this point. So I really ask the Board
8 to think about whether this policy and this increased risk
9 is the appropriate action to take for the beneficiaries.

10 Thank you.

11 CHAIRPERSON MILLER: Thank you for your comments.

12 I don't believe we have any other public
13 commenters. We have a motion on the floor and a second,
14 so I'll call for the question. This is a voice vote. So
15 all in favor?

16 (Ayes.)

17 CHAIRPERSON MILLER: No nays.

18 No abstentions.

19 The motion carries.

20 And thank you for the presentation. Again, well
21 done. Thank you to the team. I know there's been a lot
22 of hard work that's gone into this. And it definitely
23 shows in the product that you bring to us.

24 Thank you.

25 INVESTMENT DIRECTOR DEMING: Thank you.

1 CHAIRPERSON MILLER: So this brings us to our
2 information agenda items, which we've all been looking
3 forward to, starting with a presentation on market
4 dynamics and portfolio implications.

5 Dan.

6 (Thereupon a slide presentation.)

7 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Yes.
8 Thank you, Mr. Chair. And as you say, we move on to our
9 information items, but we're going to go through current
10 market conditions really just to help the Board with their
11 oversight responsibilities. We'll go through what's going
12 on in the economy, what's going on in markets, and then of
13 course what's going on with the portfolio.

14 We're going to start with an economic update from
15 Jake Tuttle. And I'll ask the team to go ahead and join
16 me, please. We'll start with an economic update from Jake
17 Tuttle. He's filling in for Lauren Rosborough Watt who
18 you'll see on the agenda, who is at home caring for sick
19 children. From there, we move on to Michael Krimm, who
20 will discuss the overall portfolio positioning and
21 effects, and then we turn to Simiso Nzima, Lou Zahorak,
22 and Sarah Corr, who will provide and update on what's
23 going on in the global equity portfolio, the global fixed
24 income portfolio, and then across the private assets,
25 where Sarah will conclude for us.

1 So with that, I will turn it over to Jake to lead
2 us off on economics.

3 Jake, over to you.

4 INVESTMENT OFFICER TUTTLE: All right. Jake
5 Tuttle, Investment Office.

6 We can go to I think it's slide 3.

7 --o0o--

8 INVESTMENT OFFICER TUTTLE: Perfect. Good
9 morning, everyone. It's my pleasure to speak with you
10 today and my sincerest thanks to Lauren for helping me
11 kind of get prepped and everything for this morning. So
12 I'd like to start with a brief look back to establish
13 where we're coming from and what we -- what was talked
14 about when Lauren last spoke with the Committee.

15 Globally, the post-pandemic economic recovery was
16 well under way by the second half of 2021. The U.S.
17 economy, as measured by real GDP, had exceeded its
18 pre-pandemic level, and most countries globally were
19 rebounding strongly.

20 As we've noticed in the past, the pandemic
21 recession was unusual in that both the demand and supply
22 sides of the economy had declined. Typically, it's more
23 on the demand side. And what we've seen in the subsequent
24 rebound was imbalanced as well.

25 Case in point, the U.S. economy experienced about

1 three -- two and a half million excess retirees and other
2 workers choosing not to participate in the labor market,
3 which has restricted the supply of labor, a pivot away
4 from demand for services such as travel and restaurants to
5 goods such as automobiles and other consumer durables led
6 to excess capacity in some areas and constraints in
7 others.

8 And third supply chain blockages as the global
9 economy reopened at varying paces. This continues to be
10 an issue most recently observed following the COVID
11 related lockdowns in China. So there's a lot that's been
12 driving both supply and demand. Typically, we might show
13 a chart of real GDP or the output gap, but -- and the
14 output gap we define as the excess demand or slack in the
15 economy to indicate where the U.S. economy sits today.

16 However, it's difficult to get a good sense of
17 the size of the supply-kind -- supply-side constraints in
18 real time from a macro or aggregate perspective. And
19 relative prices are moving relatively quickly.

20 So another way to show the strong in the economy
21 is to look at nominal GDP, which is the total size of the
22 economy measured at current prices and this is the chart
23 that we have on the left-hand side. What you can see is
24 that nominal GDP is above its pre-pandemic trend and this
25 hasn't markedly slowed in recent quarters.

1 Now, what's changed? The macroeconomic data
2 haven't materially changed the global economic story since
3 the end of 2021. Slowing growth as the global economy
4 normalizes, tightening policy from monetary and fiscal
5 authorities, and geopolitical uncertainties. A number of
6 factors have, however, changed in intensity and
7 importantly expectations have changed as well.

8 There has been heightened economic uncertainty
9 around the range of future outcomes and the path by which
10 the U.S. and the global economy gets there. For instance,
11 this type of inflation and growth shock hasn't occurred in
12 a generation. What was once considered transitory
13 inflation by the fed and many analysts is now no longer
14 so. Economists are forecasting core inflation pressure to
15 remain above the Fed's target headline inflation rate well
16 into 2030. The size of the fiscal and monetary stimulus
17 are also unprecedented. And the lack of historical
18 context has increased uncertainty around the outlook,
19 which in turn has weighed on sentiment.

20 The chart on the right-hand side of this slide
21 shows a range of a number of financial condition indices
22 or FCIs. These composite indices illustrate how tight or
23 easy asset prices and interests rates are in the economy.
24 You can see that recently the range has lifted or
25 tightened, but still remains below its historical average.

1 In other words, conditions till remain easier or
2 relatively loose.

3 Of course, as we know, 2022 has seen a
4 significant external shock, that being the Russia-Ukraine
5 conflict. The human toll is devastating, the conflict
6 itself displaced peoples, and the impact on food security
7 for millions of others. A notable implication on prices
8 is centered on food, oil, metals, and gas. These
9 commodity prices were already rising in the post-COVID
10 recovery.

11 Some of the curtailment, such as fertilizer and
12 food production and distribution will have a long tail
13 with the UN noting that the food crisis will last for
14 years. Consequently, there's increasing uncertainty and
15 waning business confidences -- confidence as firms adjust
16 to rapidly changing relative prices. The implications are
17 material and global.

18 If we move to the next slide --

19 --o0o--

20 INVESTMENT OFFICER TUTTLE: -- the chart on the
21 left shows the IMF World Economic Outlook's latest update.
22 You can see its forecast for real GDP in the top panel and
23 headline inflation, or CPI, on the bottom panel. The
24 IMF's global growth forecast for 2022 have fallen by 0.8
25 percentage points since January and 1.3 percentage points

1 since October. Globally, the impact of the conflict is
2 disparate with the U.S. Less directly affected and other
3 countries, especially in Eastern Europe, more directly and
4 severely impacted

5 In terms of inflation, the IMF has significantly
6 revised these estimates higher, as well as market
7 participants, partially a result of the elevated commodity
8 prices I noted earlier. Global monetary policy is also
9 adding elevated uncertainty. We've see that via the
10 repricing of forward interest rate expectations. In
11 December 2021, just six months ago, market participants
12 anticipated a relatively benign rate -- rate hike path,
13 both in the U.S. and abroad.

14 Since that time, expectations have adjusted
15 significantly higher, now seeing the federal fund's rate
16 above three percent by then end of the year. Federal
17 Reserve speakers and Chairman Powell have made it clear
18 that the market tightening of short rates and financial
19 conditions, which you saw a version of on the prior slide,
20 is not enough to slow demand nor is the curtailment of
21 supply to ensure inflation eases back.

22 Last week, the BLS reported the U.S. inflation
23 for May was at a 41-year peak of 8.6 percent year on year,
24 highlighting the challenge at hand. Global central banks
25 are also tightening policy in an effort to curb inflation,

1 and so we see this global theme has emerged.

2 Rising prices means money in your wallet doesn't
3 go as far, and paired with tightening policy, this tends
4 to slow economic activity. So looking ahead at economic
5 growth in the U.S., which economists had already
6 anticipated would slow towards its long-run average, has
7 risk tied to the downside.

8 To summarize, recent global events have
9 front-loaded the inflationary impact on the global and
10 U.S. economies. Growth expectations have consequently
11 rerated lower and geopolitics has hastened a reassessment
12 of risk. I'll pass it on now to my colleagues to discuss
13 what that means for the portfolio.

14 INVESTMENT DIRECTOR KRIMM: Thank you, Jake.
15 Michael Krimm, CalPERS staff.

16 I'm going to speak about the total portfolio and
17 I'm going to focus my comments on how we think about risk
18 in the portfolio. So if we could go to --

19 --o0o--

20 INVESTMENT DIRECTOR KRIMM: Yeah.

21 So I'm going to -- the way I want to approach
22 this is I'm going to share with you a couple of different
23 visual perspectives over the next couple pages that look
24 at portfolio risk from different angles.

25 On this page, we look at recent market experience

1 relative to expectations. This straight orange lines and
2 the gray cones on each chart represent the expected
3 returns and the uncertainty in those returns based on the
4 capital market assumptions we set during our last ALM
5 process starting in June of 2018. The blue lines
6 represent the actual realized performance of our assets
7 relative to those expectations.

8 The overall interpretation is that despite the
9 recent drawdown, we are still roughly in the range of
10 expectations we would anticipate for various assets and
11 for the PERF as a whole. Of course, we will continue to
12 monitor and update this perspective.

13 And one comment I would add is that you've heard
14 about the fact that the Environment we are in is
15 unprecedented and I agree with that. The interesting
16 thing about this perspective is that just in a
17 quantitative sense in terms of the magnitude of the
18 outcomes, we are still within a range of expectations.

19 --o0o--

20 INVESTMENT DIRECTOR KRIMM: On this page, we're
21 going to ill -- we're illustrating the primary risk factor
22 of the PERF, which is the risk of the equity market.
23 Rather than showing you a quantitative model to make this
24 point, what we've done here is simply plotted the
25 historical rolling one-year returns of the PERF relative

1 to equities for the last 20 years. The inside blue line
2 is the PERF and the outside gray line is the equity
3 market. Two observations jump out.

4 First, PERF returns are unambiguously tied to the
5 equity market. Simply put, in general, in years when
6 stocks are up, the PERF performed well and when stocks
7 were down, the PERF performed poorly. This relationship
8 exists both because equities are just simply a large
9 component of our asset allocation, and because even many
10 of our non-equity assets share growth-related risk
11 characteristics with the equity market.

12 However, the second observation on this chart is
13 a little more positive, which is that the PERF is not as
14 volatile as equities. And that is both because we have a
15 lower overall risk posture and because we don't hold only
16 equities, in other words we have some diversification.

17 --o0o--

18 INVESTMENT DIRECTOR KRIMM: This next chart takes
19 a slightly different angle on illustrating risk. What
20 we're showing you here is a historical simulation of our
21 current asset allocation back almost 100 years, and that's
22 the blue line. Alongside it, you have the performance of
23 the equity market, which is the orange line. In this
24 case, we're showing you drawdowns, in other words, any
25 time the value of the return series falls below its peak.

1 In contrast to a simple quantitative risk metric like
2 volatility, this way of visualizing risk gives you a more
3 frankly visceral way to get a sense of the pain a
4 portfolio like ours could have experienced through the
5 histories of the markets.

6 On the far right is the current drawdown that
7 we've experienced this year. And you kind of have to
8 squint a little bit to see it, but we are down, I think as
9 Nicole pointed out in her opening comments, about 10
10 percent from the peak value of the PERF. And the equity
11 market, since we've printed this, is down probably around
12 20 percent. And you can't really see that on the orange
13 line there.

14 In this context, you can see that drawdowns like
15 the one that we're currently in unfortunately do happen
16 repeatedly in the history of markets and things could
17 actually still get worst. And further, some of the
18 drawdowns can last relatively long years even. We're just
19 pointing this out to share that this is the risk profile
20 that we are accepting to achieve our return outcomes.

21 Now, on the positive side, markets have also
22 consistently recovered from these drawdowns. And the line
23 that we're not showing you, because this chart is supposed
24 to focus on risk, but the line that we're not showing you
25 is the overall positive upward slope in the returns of

1 both the markets and our simulated portfolio that we would
2 have exhibited for this period. And that upward slope of
3 course is the basis for our positive long-term return
4 expectations.

5 --o0o--

6 INVESTMENT DIRECTOR KRIMM: So that's a little
7 background on kind of market history and market action.
8 And now, I want to turn to our portfolio. To start, we're
9 going to -- I'm showing you here the strategic asset
10 allocation. And I think of our strategic asset allocation
11 as our long-term plan. In November, the Investment
12 Committee adopted a new strategic allocation, and that's
13 what we're showing here. The new allocation increased
14 weight to our existing private assets. It introduced
15 private debt and emerging market sovereign bond asset
16 classes, and it introduced leverage as a deliberate tool
17 of strategic allocation.

18 Given the current environment and all the changes
19 we've experienced in the economy and the markets since
20 November, one could ask whether this long-term plan is
21 still appropriate. We believe it is. In terms of risk
22 management, one of the most effective tools we have is
23 diversification. And one trade that all the recent
24 changes to the allocation have in common is that they
25 support our return objectives while helping reduce our

1 reliance on public equities as our primary return engine.

2 Our private assets take advantage of our
3 liquidity and long investment horizon to offer either
4 higher returns than equities and/or to provide a
5 diversifying risk profile while still achieving a
6 relatively high return. Think, for example, about the
7 attractiveness of real assets in an inflationary
8 environment. Our varies fixed income segments similarly
9 diversify equities in many environments, though not all I
10 would add, while still offering a return premium.

11 Our non-cap weighted equity segment adds a risk
12 mitigation tilt to typical stock market returns. And our
13 introduction of strategic leverage allowed the Committee
14 to select a portfolio with two percent less weight in
15 equities than the non-leveraged option with the same
16 expected return.

17 Altogether, the new strategic allocation reduces
18 weight in public equities by eight percent versus our
19 prior strategic allocation, while achieving a 0.6 percent
20 higher expected return. None of these changes
21 fundamentally alter the risk relationships I showed you on
22 the prior slides. Equity and growth risk will still
23 dominate the portfolio, but all these changes move us in
24 the right direction. Of course, achieving these benefits
25 requires accepting the work and complexity that comes with

1 implementing this kind of portfolio.

2 And so with that, we'll turn to some perspectives
3 on how our portfolio is currently being managed.

4 --o0o--

5 INVESTMENT DIRECTOR KRIMM: So there's three
6 different perspectives here. I'm going to start at the
7 top with the actionable tracking error. Recall that
8 actionable tracking error, or TE, is best thought of as a
9 measure of how different our public assets portfolios and
10 our asset allocation is from our policy benchmark. More
11 tracking error does not necessarily mean our portfolio is
12 more risk than the benchmark, rather it means we are a
13 greater degree of different.

14 The current level of TE of around 20 basis points
15 relative to the budget of 100 basis points tells us that
16 our portfolio is closely positioned relative to the policy
17 benchmark. In other words, we are closely following the
18 long-term plan with some slight divergences reflecting
19 active strategies and opportunities we see, as well as the
20 unavoidable frictions of managing a real portfolio versus
21 a benchmark.

22 The other takeaway from this top chart is that we
23 have excess capacity in our risk budget. That gives us
24 leeway to add new strategies or take advantage of market
25 dislocations that may arise in the current environment.

1 Next, let's look at the bottom chart, which is
2 the current weight of our three private asset classes
3 within the PERF. We show this exposure against the prior
4 allocation range from the last ALM cycle, which is the two
5 gray bars for Private equity and real assets. And we also
6 show it against the new ranges adopted by the Committee in
7 November, which is the blue bars.

8 The key thing from a risk management perspective
9 to remember is that we cannot precisely target the weight
10 in private assets. This is a slow moving process where
11 stability and consistency in our deployment is an
12 important success criteria, but the chart shows that we
13 are on track to our new allocation targets and our
14 progress here is due to a combination of steady work by
15 our private asset teams over the last couple years, as
16 well as due to the recent drawdown in the public markets,
17 which reduces the denominator against which these weights
18 are measured.

19 And finally, we're going to look at the middle
20 section, which are liquidity metrics and we share these to
21 provide a sense of our operational capability to maintain
22 our strategies and take advantage of opportunities should
23 we enter a stressed financial environment. We believe we
24 have sufficient coverage against these metrics as well as
25 other internal metrics that we continuously monitor.

1 And just as an illustration, during the early
2 2020 period, which was the acute phase of the COVID
3 drawdown, we had a live test of some of the liquidity
4 management tools that we've been developing over the past
5 years. During this period, we were able to not weather
6 the storm, but also lean into opportunities, both
7 tactically and through maintaining consistent deployment
8 into private markets. So that concludes my comments on
9 the portfolio and risk.

10 Thank you.

11 Simiso.

12 --o0o--

13 CHAIRPERSON MILLER: Okay. I don't see any
14 requests to speak or ask questions, clarifying questions,
15 or anything from the Committee. So thank you very much.

16 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Thank
17 you, Mr. Miller. Next we'll move on to some of the Asset
18 classes. So we're going to let Simiso followed by Lou
19 Zahorak, and then followed by Sarah Corr take us through
20 those portions of the portfolio.

21 CHAIRPERSON MILLER: Okay. So we'll do questions
22 at the very end all of them not between?

23 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Yes.

24 CHAIRPERSON MILLER: Okay. So no questions,
25 we're on to Simiso.

1 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Thank
2 yo.

3 --o0o--

4 MANAGING INVESTMENT DIRECTOR NZIMA: Thank you,
5 Dan. Good morning, Chair, and members of the Investment
6 Committee. I hope you can hear me well.

7 Mark Twain is reportedly to have said history
8 doesn't repeat itself, but it often rhymes. And I
9 encourage you, as I go through the slide, to have that in
10 the back of your mind, because it really illustrates what
11 I'm going to talk about here.

12 So the graph that you see here, the white line
13 represents the S&P 500, which is the largest 500 stocks in
14 the United States by market capitalization, and the blue
15 line represents the volatility index, which is known as
16 VIX, also known as the Fear Index. So the volatility
17 index tends to be stable and low when markets are calm, so
18 in the mid-teens. And when markets are falling or when
19 there's volatility, it spikes high.

20 I'm going to focus on three parts of this graph
21 and then relate those to what the time period we are in
22 right now. So the first part is the tech bubble. So from
23 2000 to 2002 where the S&P 500 fell 49 percent during the
24 tech bubble, that fall took two and a half years. So it
25 wasn't an instant fall. It happens over a period of two

1 and a half years.

2 It took another four and a half years after the
3 bottom of the market in 2002 for the market to recover to
4 its 2000 level, so it wasn't until May 2007. And during
5 that time, VIX also spiked to about 45 percent. Then we
6 move over to the global financial crisis in 2007. Again,
7 the market fell 57 percent. And this time it didn't take
8 two and a half years for the market to fall, it took a
9 year and a half. And it took another four years after the
10 market bottomed in 2009 to recover to its pre-GFC crisis
11 level. And VIX, during this time, spiked to 81 percent.

12 And then the third area of focus here is the
13 COVID market crash in March 2020. And the market fell 34
14 percent and the market fell -- this happened within a
15 month, so it wasn't -- you know, it wasn't one and half
16 years, it wasn't two years, it was just within a period of
17 one month. It took only five months from the bottom for
18 the market to recover to its pre-COVID crash level, and
19 VIX spiked to about 83 percent.

20 Now, if we're looking at the current drawdown, as
21 of this morning, the market is down about 20, 21 percent
22 from its high in Jan -- on January 3rd, 2022 and VIX is
23 about 34 percent. So when you look at this, when you look
24 at where we are relative to history, the drawdown level is
25 still lower than what was seen in the past. The level of

1 VIX is still lower than that we've seen in the past.

2 What -- I want to leave you with sort of three
3 messages that you can take from this slide. The first
4 message is equity markets are volatile, but each period of
5 volatility is not the same as the prior ones and often
6 results from different causes. So going back to Mark
7 Twain about history not repeating itself, but rhyming. So
8 we've seen these moves before. This is not the first
9 time. We've seen larger moves than this.

10 The second point I would make here is that we are
11 long-term investors and should not panic just because of
12 the short-term volatility in the market. We can't predict
13 the duration of market dislocations or drawdowns, because
14 that duration depends on the causes of the drawdowns as
15 well as the policy responses to those drawdowns. The
16 third and final point I would like you to take from this
17 graph and this slide is that every time that the stock
18 market has had massive drawdowns, it has recovered and
19 gone on to reach new heights higher than the previous
20 peaks reached before the drawdowns.

21 So those are the three messages I would like you
22 to take from this slide.

23 Let's move on to the next -- to the next slide.

24 --o0o--

25 MANAGING INVESTMENT DIRECTOR NZIMA: Now, looking

1 at our portfolio, because the question you may have is so
2 what? You've shown us the history. You've shown us that
3 markets are volatile -- equity markets are volatile and
4 we've seen this before.

5 The first thing I would say here is it is hard,
6 if not impossible, to predict when markets are going to
7 fall or when they're going to rise. So as a result, what
8 we aim to do is to build a portfolio that is resilient
9 during market drawdowns, but also that benefits when the
10 market rises.

11 So Exhibit A for this is our factor-weighted
12 segment. That segment is defensive in nature, and is
13 actually built for periods like this. As of the end of
14 May, relative to the cap-weighted segment, that segment
15 has served us about \$3 billion, in terms of -- you know,
16 the performance relative to the cap-weighted. So it's
17 doing what it's supposed to do, being defensive during
18 these volatile markets.

19 The other point here is that diversification is
20 the only free lunch in investments. Exhibit B for that is
21 our portfolio is well diversified across geographies,
22 across countries, regions, sectors, and investment
23 strategies.

24 The third point here is that when you have market
25 volatility, this is actually a favorable environment for

1 active management and for generating alpha above the
2 policy benchmark. Staff will pursue more active
3 investment strategies to take advantage of market
4 dislocations. When you have a lot of dispersion, when you
5 have a lot of volatility, this actually presents a reach
6 opportunity for active management.

7 That concludes my presentation and I'll hand over
8 to -- to lou.

9 INVESTMENT DIRECTOR ZAHORAK: Good morning. Lou
10 Zahorak, Investment Director, global fixed income. Today,
11 I will give an update on the fixed income markets and our
12 portfolio and I'd be happy to answer any questions you may
13 have.

14 --o0o--

15 INVESTMENT DIRECTOR ZAHORAK: Since the start of
16 the calendar year, the fixed income market has experienced
17 increased volatility in interest rates and credit spreads.
18 So what's happened to cause this volatility?

19 I'm going to cite a few factors that Jack -- Jake
20 had touched on earlier. COVID-related supply chain
21 bottlenecks and shortages in parts and inventories has
22 continue to affect many industries and has caused
23 increased pricing pressures. We also have seen in the
24 U.S. that we have a robust labor market, which has been
25 constrained by a lack of labor supply, which has also

1 increased pressure on wages. And as Jake noted, in
2 February, the events in Ukraine unfolded. And as such,
3 it's a sad human tragedy, but economically, the fixed
4 income markets priced in the impacts of increased
5 commodity prices on crude oil, grain, and fertilizer.

6 This higher inflation is seen by all of us at the
7 gas pump and grocery stores. Last Friday's CPI print of
8 8.6 percent on an annual increase is the highest its been
9 since last seen in the 1980s. This high inflation is
10 requiring central banks around the world to increase
11 interest rates to slow inflation in order to bring demand
12 and growth lower.

13 One thing the Investment Office has become
14 increasingly focused on is how the global world order may
15 be changing. Russia's actions in Ukraine and the
16 geopolitical concerns with the U.S. and China relationship
17 has increased calls for de-globalization, which is
18 bringing supply chains closer to the home, which on the
19 margin would also be inflationary.

20 So looking forward, the world and fixed income
21 markets may experience different risk factors than we've
22 seen for the last 30 years, which may result in more
23 inflation than disinflation.

24 So what does this mean for the fixed income
25 markets? As you can see on this slide, treasury rates

1 have risen for all maturities. I'd like to highlight that
2 the rates on the screen are as of May 19th. Today, rates
3 are even higher across the curve. The two-year treasury
4 is up 60 basis points, while the 30 year treasury is up 30
5 basis points.

6 We know the federal reserve has started the
7 process of raising interest rates to try to reduce
8 consumer demand and lower GDP growth with the goal to
9 lower inflation. Financial markets are expecting the
10 federal reserve to raise the Fed's fund rate 50 basis
11 points at this Wednesday's Federal Reserve meeting. And
12 as of this morning, another 75 basis points at the July
13 meeting. More increases in the Fed's fund -- Fed fund's
14 rate are expected through the remainder of 2022 and 2023.
15 So between now and February of '23, the expectations are
16 that the Fed will raise the Federal fund's rate in total
17 275 basis points or 2.75 percent.

18 We're also seeing the impact in the credit
19 markets with higher borrowing rates. You can see at the
20 bottom of the slide credit spreads are higher since the
21 start of the fiscal year and we're seeing higher credit
22 spreads in both the Investment grade market, where
23 companies like Apple borrow and in the high yield market.
24 Corporate bonds like cor -- like stocks are negatively
25 impacted by inflation. Inflation puts pressure on

1 corporate operating costs and margins.

2 At some point, a corporation's ability to pass on
3 higher prices to customers weakens, and their growth in
4 revenue and earnings expectations fall short. The
5 corporate bond market is starting to price in just these
6 risks.

7 Next slide, please.

8 --o0o--

9 INVESTMENT DIRECTOR ZAHORAK: So where does all
10 this leave us now from a portfolio construction
11 standpoint? Different points in an economic cycle provide
12 different opportunities. In fixed income, when we analyze
13 the upside and downside potential of an investment, the
14 starting valuation matters. When valuations start to have
15 better upside potential, that's when we make changes to
16 our portfolio allocation.

17 Now, as an example, during the first quarter of
18 2020, right before COVID, we did not like the
19 upside-downside outlook in the fixed income markets.
20 Interest rates and credit spreads were low, so we were
21 positioned close to index neutral. To be clear, we did
22 not predict COVID. We just didn't feel like we were being
23 compensated for market uncertainty at that time, so we had
24 a neutral position portfolio.

25 However, following the COVID outbreak, fixed

1 income markets cheapened substantially and the portfolio
2 was repositioned and we produced in excess of
3 three-quarters of a billion dollars in excess return for
4 the total plan.

5 Fast forward to the beginning of this fiscal
6 year. Once again, the upside-downside outlook was less
7 appealing, and so the global fixed income portfolio was
8 again repositioned to be close to index neutral. So my
9 main takeaway is that the global fixed income portfolio is
10 well positioned to take advantage of the improved
11 upside-downside outlook and cheaper valuations we're
12 seeing in the current markets in order to take advantage
13 and to add excess returns to the total plan.

14 Thank you.

15 MANAGING INVESTMENT DIRECTOR CORR: Thank you.
16 Sarah Corr, Investment Office staff.

17 2021 was an active year for fund raising in
18 private markets.

19 --o0o--

20 MANAGING INVESTMENT DIRECTOR CORR: A historic
21 amount of \$1.2 trillion was raised globally. This would
22 imply that private markets are well-positioned to take
23 advantage of market dislocations.

24 If you look at the chart on the right, while it
25 represents a real -- a private real estate benchmark

1 relative to a public REIT, the same could be said for
2 private equity and private debt as well, that private
3 markets are less volatile. This would imply that private
4 markets won't fall as quickly as public markets, but they
5 also might not recover as quickly.

6 Private markets also provide the benefit of
7 diversifying from public equity risk, especially real
8 assets and private debt. In raising rate environment,
9 private debt should perform better as it is mostly
10 floating rate.

11 Lastly, the real estate benchmark has provided
12 income in every year since its inception. This hasn't
13 always been true for the real estate portfolio. The
14 current positioning of real assets portfolio focused on
15 core income producing assets has maintained a three
16 percent cash yield over the past five years including
17 during 2020.

18 Next slide, please.

19 --o0o--

20 MANAGING INVESTMENT DIRECTOR CORR: CalPERS'
21 unfunded commitments across the private markets should be
22 able to -- should allow CalPERS to take advantage of
23 market dislocations. That said, it will be important for
24 CalPERS to continue to actively commit to the private
25 markets. Consistent deployment is key to long-term

1 performance in private markets.

2 Turning to the real assets portfolio. Ninety
3 percent of the portfolio is invested in core assets that
4 are income producing and which make up more -- make them
5 resilient than value-add and opportunistic. The focus on
6 core investments with income production is consistent with
7 the role of real assets.

8 We've already seen higher rates push out some of
9 the more levered buyers. And CalPERS, as a long-term
10 investor, can take advantage of this by buying all equity
11 and take advantage of the dislocation.

12 I think we're now open for questions.

13 CHAIRPERSON MILLER: Okay. I have some questions
14 here starting with Controller Yee.

15 COMMITTEE MEMBER YEE: Okay. Thank you, Mr.
16 Chairman. Really appreciate the presentation. I just had
17 a couple of questions and it -- I think, Simiso, you were
18 addressing slide 11 with respect to some of the
19 opportunity we have relative to the equity portfolio.
20 Could you just elaborate a little bit more about what the
21 differentiated approach is. That's a term I'm not
22 familiar with.

23 MANAGING INVESTMENT DIRECTOR NZIMA: Yeah. Thank
24 you, Controller Yee for the question. This was really
25 about moving away from sort of the index approach. So

1 what we're looking at here is that we're using sort of
2 multifactorial strategies.

3 COMMITTEE MEMBER YEE: Um-hmm.

4 MANAGING INVESTMENT DIRECTOR NZIMA: We're using
5 enhanced indexing, which looks at companies that have sort
6 of stronger balance sheets and durable business models and
7 so forth. And also, we're looking at active managers,
8 sort of external managers that actually have return and
9 risk profiles that are different from the managers that we
10 currently have in our -- in our roster. So it's all those
11 things sort of combined, but also leveraging the
12 partnerships that we have outside of CalPERS. That's
13 partnerships with external managers or others in terms of
14 just looking for opportunities where we can add alpha.

15 COMMITTEE MEMBER YEE: Okay. Thank you for that.
16 I may have misread it. I think it was -- I thought it was
17 a different approach, but it's actually pursuant to the
18 active management strategy, so --

19 MANAGING INVESTMENT DIRECTOR NZIMA: Yes.

20 COMMITTEE MEMBER YEE: -- we're utilizing all of
21 the tools that we have there. Okay. Great.

22 I'm happy to hear that our fixed income portfolio
23 is well positioned. This is very, very good news. And
24 obviously very concerned about how persistent high
25 inflation will be. So that was a really great report.

1 And then to Sarah, this is I think also kind of
2 becoming the \$64 million question. And that is as
3 companies are pushing their return to office dates, are we
4 expecting any negative impacts to our portfolio near term?

5 MANAGING INVESTMENT DIRECTOR CORR: I think it's
6 too early to tell.

7 COMMITTEE MEMBER YEE: Yes.

8 MANAGING INVESTMENT DIRECTOR CORR: We're seeing
9 occupancy is still quite high and tenants are paying their
10 rents. But it will take rents -- or leases rolling off
11 and seeing what the lease-up rates are like.

12 COMMITTEE MEMBER YEE: Okay. Good. Thank you.
13 Thank you, Mr. Chair.

14 CHAIRPERSON MILLER: Okay. Thank you.

15 Next, we have Board President Taylor.

16 There it is. It's got a delay.

17 COMMITTEE MEMBER TAYLOR: Thank you. It does
18 have a little bit of a delay.

19 So I have a bunch of questions. Sorry, guys. I
20 want to start with this all looks great and I'm glad we've
21 worked really hard to factor in volatilities and risk, so
22 that we can, you know, sail our way through it hopefully.
23 But I -- what I want to know is with the -- with this risk
24 mitigation strategy, do -- what are our expectations in
25 terms of how we're going to fair next to our peers? And

1 that's more of a Dan question, I think.

2 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Yeah.
3 That's a very complex question. One thing is that we have
4 the factor-weighted equity, so we would expect our equity
5 allocation to hold up better than our peers. However, we
6 also have more fixed income than a lot of our peers. And
7 frankly, you know, as Michael alluded to, usually fixed
8 income serves as a diversifier to equity, and tends to zig
9 when equity zags.

10 In this environment, in an inflationary
11 environment, they're actually moving together. Now, the
12 other parts of the diversification are helping. And I
13 would say certainly the real assets part of the portfolio
14 where some of our peers have REITs as part of their real
15 estate exposure, we would expect our real estate to hold
16 up better. However, some of our peers also have
17 commodities in their real assets part of their portfolio
18 and we don't, and commodities are performing quite well
19 right now.

20 So that's a long way of saying we don't know. We
21 -- you know, we -- we manage our portfolio for our
22 liabilities and trying to -- you know, trying to pay
23 benefits to our two million beneficiaries. Where we land
24 relative to our peers will really have more to do with
25 sort of their differential allocations to ours. And ours

1 is set up for our utility function.

2 So, as I say, it's a complex question and we'll
3 see where we land, but for us, I think it's being focused.
4 And as Michael really said it right, we think our
5 allocation is right for us and we continue to think that
6 the allocation that this Board adopted in November is the
7 right allocation for this portfolio.

8 COMMITTEE MEMBER TAYLOR: And I agree. I just
9 also think that we -- we presupposed some sort of
10 volatility, so we did factor in a little less return and a
11 little more risk -- you know, less risk. I'm sorry, more
12 return for less risk is -- I think is what we were hoping
13 for.

14 Sorry, I got distracted.

15 So also I just want to make sure that we're
16 focusing on the-long term sustainability, right? So
17 there's a couple of factors that I think that kind of got
18 touched on when we were talking about inflationary issues,
19 workforce issues. We're not -- I want to make sure those
20 long-term risk mitigation strategies like our workforce
21 issues, right, our environmental issues are always present
22 in everything that we do here and it's implemented through
23 the market --

24 (Lights went off.)

25 COMMITTEE MEMBER TAYLOR: Is there a reason this

1 is happening?

2 VICE CHAIRPERSON FECKNER: SMUD.

3 (Laughter.)

4 (Lights went on.)

5 CHAIRPERSON MILLER: We're good.

6 COMMITTEE MEMBER TAYLOR: It was automatically
7 SMUD.

8 Okay. That it's being integrated throughout our
9 portfolio. One of the things I wanted to mention, we
10 talked about global volatility, right, and we're kind of
11 focusing on Ukraine. But the fact that we have a
12 democracy issue in this country with voter suppression and
13 stuff I think it's very important that we stay aware of
14 this.

15 (Lights went off.)

16 COMMITTEE MEMBER TAYLOR: And here we go again.

17 So those are some of the things I wanted to bring
18 up --

19 (Lights went on.)

20 (Laughter.)

21 COMMITTEE MEMBER TAYLOR: -- and make sure that
22 we are implementing these in our portfolios. I did have a
23 couple of other. That was more of a statement, but --

24 (Lights went off.)

25 VICE CHAIRPERSON FECKNER: She's leaning on the

1 lights.

2 COMMITTEE MEMBER TAYLOR: Oh, you're leaning on
3 the lights.

4 (Laughter.)

5 (Lights went on.)

6 COMMITTEE MEMBER TAYLOR: I want to make sure I
7 covered everything. I think those are all of my
8 questions. If I have any more, I well let you know, but
9 yeah, I think I covered all my questions here.

10 Thank you.

11 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: I
12 guess just really quickly before we move on to the next
13 question. Yes, those are all topics that are on our
14 radar, specific the resiliency and the sustainability.
15 And actually, Nicole, in her presentation the next one
16 will spend, you know, quite a bit of time talking about
17 that in open and then we'll also talk further about that
18 in closed, but this -- these are unequivocally on Nicole's
19 specifically, but all of our radar.

20 COMMITTEE MEMBER TAYLOR: Great. Thank you.

21 CHAIRPERSON MILLER: Okay. Thank you. Next, we
22 have Board Member Pacheco.

23 COMMITTEE MEMBER PACHECO: Thank you.

24 CHAIRPERSON MILLER: Let me try it again.

25 COMMITTEE MEMBER PACHECO: Yeah, there it is.

1 Thank you. Thank you, Dan. And thank you, team,
2 for that wonderful presentation. I really enjoyed that
3 awesome explanation of just everything on the portfolio
4 and the economics. I have a question regarding the
5 outcomes in the context of the expectation. I believe it
6 is slide number five of page 15, in terms of the returns
7 and the expected standard deviation. I noticed that it
8 was within the one standard deviation. Is there any
9 system that we have in place if it gets beyond let's say
10 the one per -- one -- the one standard deviation to let's
11 say the two standard deviations? Do we -- have we -- do
12 we flag something or is there something there to identify,
13 hey, we've got to -- we've got to address this again and
14 reevaluate? I'm just curious what your thoughts are on
15 that process?

16 INVESTMENT DIRECTOR KRIMM: So there's not a sort
17 of mechanical system per se. But the reason we have these
18 charts is so that we can monitor it constantly. I
19 think -- remember that these expectations are based on a
20 quantitative risk model, which is imperfect. So we have
21 to take it -- you know, we have to use judgment when we're
22 looking at it. But absolutely, when the -- you know, when
23 the outcomes deviate from expectations, we will start
24 squinting at it more and more closely as that -- you know,
25 as that gets more extreme.

1 COMMITTEE MEMBER PACHECO: And our -- and our
2 approach was that we were -- we were -- we want to be
3 within the one standard deviation, is that -- is that
4 our -- is that our ideal or is there even -- even better
5 than that?

6 INVESTMENT DIRECTOR KRIMM: I would say our goal
7 is to follow the straight orange line up, right?

8 COMMITTEE MEMBER PACHECO: Right. Right.

9 INVESTMENT DIRECTOR KRIMM: We know that's not
10 possible.

11 COMMITTEE MEMBER PACHECO: Um-hmm.

12 INVESTMENT DIRECTOR KRIMM: One standard
13 deviation implies roughly 70 percent, a little less --

14 COMMITTEE MEMBER PACHECO: Um-hmm.

15 INVESTMENT DIRECTOR KRIMM: -- range of expected
16 outcomes. Two standard deviations implies 95 percent. So
17 I would say if we are within one standard deviation, we
18 are reasonable happy, and -- but again, it's -- it is a
19 probability thing, so...

20 COMMITTEE MEMBER PACHECO: Right. And that's --
21 and since we are in a very volatile environment right now,
22 obviously it is -- it is -- it's that way right now. But
23 thank you very much. That explains it very well.

24 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Yeah.
25 And I would just say what Michael said by saying it

1 another way, by 70 percent within one standard deviation,
2 that means that 30 percent of the time, we would expect to
3 be outside of one standard deviation. And even at two
4 standard deviations, at 95 percent, we would still say
5 that one out of every 20 years, we expect to be outside of
6 even two standard deviations, so --

7 COMMITTEE MEMBER PACHECO: And that's expected.
8 I mean, that's just probably --

9 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:
10 Exactly.

11 COMMITTEE MEMBER PACHECO: It's just
12 statistically that's what -- how we would land over time.

13 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:
14 Correct.

15 COMMITTEE MEMBER PACHECO: I mean, there --

16 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: And
17 that's the reason that we -- that we will watch these and
18 make sure that we're -- that the portfolio is behaving as
19 we expect, but to Michael's point, even one out 20 years
20 we do expect Environments like that.

21 COMMITTEE MEMBER PACHECO: Yeah. I totally agree
22 with that. Thank you very much. Thank you for that
23 comment.

24 CHAIRPERSON MILLER: Okay. I have Board Member
25 Rubalcava.

1 There it is.

2 COMMITTEE MEMBER RUBALCAVA: Thank you.

3 Great presentation, folks. And Simiso, I really
4 appreciate that you quoted Mark Twain, because I was
5 thinking of a Mark Twain quote myself, which is, it's
6 better to keep your mouth closed and not let people think
7 you're a fool than open it and remove all doubt

8 So I'm going to violate this statement --

9 (Laughter.)

10 COMMITTEE MEMBER RUBALCAVA: -- by askin a
11 question. You know, I really -- whenever I hear a
12 presentation, I'm always impressed how CalPERS has a very
13 smart staff, and consultants, and -- that we have the --
14 and the Board adopted a set of location -- asset -- asset
15 liability allo -- asset allocation system that sort of
16 stabilizes for the future and is a recognition of the
17 uncertainty of the market as our new Chief Investment
18 Officer stated at the begin -- in her opening remarks.

19 And part of that is also recognizing that there's
20 systemic risks in this -- in this system that we invest
21 in. I was appreciative of President Taylor mentioning
22 some of the issues out there. And so I want to follow up
23 and speak to one, which is -- and I'm glad we're
24 addressing the sustainability and we'll have more
25 presentations and discussion.

1 But sometimes because we're so big and because
2 we're a leader, we should take step forward and engage --
3 make sure that we work with our investment partners and --
4 and others to make sure that they follow our guidelines or
5 our -- set up some standards we expect. And one of them I
6 just speak to one of is that sometimes we have companies
7 out there that state they're going to follow certain
8 criteria or say on the environment, and their actions
9 don't follow through.

10 So I want to make sure that we use our status to
11 engage -- continue that engagement strategy and make sure
12 that we're doing whatever we can to make sure that the
13 people who were in the same -- they're playing in the same
14 sand box, this economy, this -- which we don't always
15 control and we can't control, that they at least try to
16 say true to the goals that we have, that guideposts that
17 we've set are -- are not so much our benchmark, but our
18 statements. And I guess it's -- like I said, Mark Twain
19 had me out there.

20 I'm trying to say something, but I hope it's a
21 question that's -- let me see if I kind find my question
22 here. So it's more of a concern, but my question is are
23 we engaging with our investor partners and companies to
24 make sure that our long-term goals help manage volatility,
25 you know, since the market is uncertain, and we make sure

1 that they're aligned with our -- what we're trying to also
2 do for our -- to sustain our members' benefits and our
3 investments. So I think that's a question some there --
4 someplace there. Thank you very much.

5 MANAGING INVESTMENT DIRECTOR NZIMA: Thank you
6 for the question and the -- and the concern. So within
7 global equity we have the Corporate Governance team. And
8 the team does a lot of engagement with companies around,
9 you know, ESG, you know, around the environmental issues,
10 around workforce issues, human capital management. And
11 these engagements really are focused on long-term
12 sustainability.

13 So what we care about over the long term is
14 companies that will survive and make the plan money now
15 and in the future, not just now. So we think about this
16 as, you know, engaging companies for the long term
17 sustainable returns. So we typically have -- you know,
18 engage about 2,000 companies per year, you know, the
19 Corporate Governance team. And we talk about some of the
20 issues -- environmental issues.

21 And when companies don't follow through on some
22 of the -- the promises -- you know, they're public
23 statements, we actually vote against directors.

24 So, you know, CalPERS is one of the few large,
25 you know, asset owners that actually vote against a lot of

1 directors. I think -- I think last time I was here and
2 did a presentation, I spoke about the fact that, for
3 example, I think last year -- last proxy season, not this
4 one, we voted against over 3,500 directors in the U.S.
5 And again this -- this is in that idea where when we
6 engage and we don't see the results of the engagement,
7 then we hold the boards accountable. So that's really
8 part of our long-term strategy around sustainability.

9 I hope I answered your question.

10 COMMITTEE MEMBER RUBALCAVA: Thank you.

11 CHAIRPERSON MILLER: Okay. Thank you.

12 Next, I have Board member -- oh.

13 CHIEF EXECUTIVE OFFICER FROST: Mr. Miller, I was
14 going to have Mr. Andrus --

15 CHAIRPERSON MILLER: Oh, okay.

16 CHIEF EXECUTIVE OFFICER FROST: -- also respond
17 to Mr. Rubalcava's question.

18 CHAIRPERSON MILLER: Wonderful.

19 CHIEF EXECUTIVE OFFICER FROST: Thank you.

20 INTERIM MANAGING INVESTMENT DIRECTOR ANDRUS:

21 James Andrus, CalPERS staff.

22 And to further what Simiso was saying, we do
23 appreciate that we have some excellent principles and we
24 do look at those principles and apply them in every case.
25 And what I mean by that is that we apply it in terms of

1 advocating for the position, so it's important that we get
2 each company to do what we would like them to do, but we
3 want to get market participants to do the same. And we do
4 this in a number of ways. For example, I've recently been
5 elevated to the PCAOB IAG to basically a get auditors to
6 focus on these issues, and the SEC IAC to provide an
7 opportunity to have early input on what the SEC is doing.

8 We're focused -- and, I, mean it's exactly what
9 you're talking about. We're focused on providing our
10 comment letter to the SEC and it addresses those issues,
11 the issues such as greenwashing, where companies say one
12 thing and do not comply. We have an expectation to do
13 something similarly when the human capital opportunity
14 comes out, because we see this in a number of instances.

15 To the extent that you're talking about a
16 specific case, we have a stakeholder team that addresses
17 stakeholder issues when they are -- when they come to us,
18 Tamara Sells leads and coordinates that operation and I
19 think it's a high-performing operation, in that we assess
20 what the stakeholders are saying and we interact with our
21 asset classes, as well as the companies that they involve
22 directly. So to the extent that there's a direct
23 opportunity, I think we're directly active in those ish --
24 on those issues as well. And we're definitely open to
25 anything that you may think that we should, in fact, do

1 better and we will actively engage on that.

2 CHAIRPERSON MILLER: Great. Thank you.

3 And next we have a question from Director
4 Middleton.

5 COMMITTEE MEMBER MIDDLETON: Thank you. There we
6 go. Thank you, Mr. Chair.

7 Simiso and everyone, thank you. This was some
8 really good data and good information. And I'm going to
9 ask one of those questions that I know is somewhat of a
10 crystal ball question. But one of the issues that we're
11 facing is not only the issue of how deep might the
12 recession be and the volatility be, but how long of a
13 period of time it could last. And could you give us some
14 guidance as to how we might approach trying to answer that
15 question?

16 CHIEF EXECUTIVE OFFICER FROST: I was going to
17 say maybe we should start with our economist.

18 Is he still up here?

19 INVESTMENT OFFICER TUTTLE: Left too soon.

20 Jake Tuttle, CalPERS staff.

21 So one thing that makes this one a little
22 different, this re -- or the risk of recession a little
23 different is where consumers are. Consumers still have
24 elevated levels of savings, the job market is still tight.
25 Yes, we're seeing higher inflation pressures. And

1 certainly, like Lou mentioned, we feel that every time we
2 go to the store or the gas pump. One thing that is a
3 comfort is at least that nominal wages have come up as
4 well. Although, in real terms, they are getting eroded,
5 some of those gains.

6 So as far as the risk for recession this year, we
7 see as relatively low just because of that positioning,
8 that, you know, as we mentioned in the presentation that
9 the demand side typically is going to lead, and the demand
10 side is in pretty good shape overall.

11 Now 2023, you know, that -- there's more time for
12 these interest rate hikes that are going on right now to
13 start to take hold. But given the economy's position at
14 the moment, we don't see -- if you entered a recession, we
15 don't see it as a particularly -- at this stage, we don't
16 see it as particularly large.

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

19 Next question. And I'll pick up on President's
20 Taylor's remarks that last November we set an asset
21 allocation plan. We think we've got it right in terms of
22 where we should be. It certainly has been a very volatile
23 few months and so we passed that. What are the warning
24 signs that you will be looking at to make sure that we are
25 on the right tack, and when and what would cause you to

1 recommend that we make adjustments?

2 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Yeah.
3 So we -- to your point, Ms. Middleton, we do think that
4 we're on the right track. And as Michael mentioned, we do
5 think the allocation is the correct one. One thing that I
6 think that you'll see us do with Nicole here now -- and
7 it's worth mentioning and I know Mr. Miller, you thanks us
8 for the -- for the presentation. It was actually I think
9 largely at Nicole's direction that we provided this one.
10 And, you know, Nicole and Marcie had a discussion about
11 it. So I do want to give credit where due.

12 I think you'll see us kind of really trying to
13 manager the portfolio and watching the allocation more in
14 real time. Right now, we're doing it on a calendar basis.
15 I don't think that that's the -- necessarily the right
16 timing. We should be doing it kind of more frequently and
17 more ongoing. And I think your -- you'll be seeing that.
18 Certainly, Sterling and team have brought that, Nicole and
19 team have brought thought.

20 But I think the things that we'll be looking at
21 is how high do interest rates get, how -- I think we've
22 moved from transitory to persistent to maybe even starting
23 to approach protracted, but how protected is -- are -- is
24 inflation. And as we -- as we watch these things, as I
25 say, we look at the portfolio as being positioned

1 correctly. And remember that we are implementing the new
2 strategic asset allocation effective at the end of the
3 fiscal year. But it will be all of the usual topics and
4 warnings signs. But we have to remember that if I look
5 into my crystal ball and say I what I expect. I do expect
6 more volatility.

7 And that can even include further drawdowns from
8 here. But about as Simiso and others mentioned, and Sarah
9 especially, drawdowns provide opportunities. And for us,
10 the key is to take that long horizon approach and try to
11 lean into the intelligent opportunities and position the
12 portfolio to take advantage of those risks.

13 COMMITTEE MEMBER MIDDLETON: You anticipated my
14 next question actually, drawdowns do provide
15 opportunities. What's our cash position to be able to
16 take advantage of those and how certain are we that if we
17 do have a downturn, that we will not have to sell assets
18 in order to make our obligations?

19 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: I
20 would say the answer to your question is very confident.
21 In the aftermath of the financial crisis, we know that we
22 had some liquidity concerns and challenges. Over the
23 last, you know, decade plus, we have done a ton of work as
24 a team to position ourselves both to have liquidity, but
25 then very importantly, and Michael alluded to this, to

1 have pathways to liquidity, and we have a number of those.
2 As Michael talked about in the COVID drawdown, while not
3 only did some of our peers and even some aspects of the
4 market, even the fixed income markets experienced real
5 liquidity stresses, our portfolio was highly, highly
6 liquid and we were at -- even able to lean in to some
7 specific opportunities that we think that have been and
8 will continue to accretive. So we feel very comfortable
9 with our liquidity position.

10 You have to be vigilant, right? You never
11 perfect liquidity. So we're being very vigilant on the
12 liquidity position. We feel very comfortable that the
13 portfolio is both liquid and able to get additional
14 liquidity.

15 COMMITTEE MEMBER MIDDLETON: Okay. Thank you.
16 That -- that covers my questions.

17 And just to circle back to what I started with,
18 that second quarter of 2020 was a wild ride, as we
19 dropped, but we recovered very, very quickly. The next
20 challenge may be one where the recovery doesn't happen
21 nearly as quickly, and it's being prepared for a much
22 longer trial that we need to be prepared for.

23 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:
24 Agreed and having the backbone to stay the
25 course. Completely agree.

1 COMMITTEE MEMBER MIDDLETON: Thank you.

2 CHAIRPERSON MILLER: All right. And I have
3 another question from President Taylor.

4 COMMITTEE MEMBER TAYLOR: I remembered. Yeah,
5 there we go. I remembered my question now.

6 So I'd wanted to ask a follow-up question on the
7 inflation, the supply chain issues. And part of that is
8 that I've been reading a ton of articles that are --
9 that's saying basically these corporations are taking
10 advantage of, number one, the supply chain issues to
11 start. Then when inflation started, then they are doing,
12 you know, their own price gouging during inflation and
13 hiding it in the inflation. The same is being said on
14 several cases, because of the profits that our oil
15 companies are making right now.

16 So when we talk about how -- you know, Simiso,
17 how do -- how do we do that? Do we -- is that a proxy
18 voting issue? Is there something that we as an
19 institutional investor can do to sort of help try to rein
20 that in? These are -- these are operational issues that
21 all consumers feel like they don't have any control over,
22 so it would be -- you know, are there suggestions? I'd
23 just love to hear that.

24 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: I
25 think you said it right in your previous question, Ms.

1 Taylor. It's about sustainability, right?

2 So as -- as prices are being passed through and
3 companies stay profitable, as investors in those
4 companies, either in the fixed income markets or in the
5 equity markets, we're -- we're the beneficiaries of that
6 profitability. However, that profitability needs to be
7 sustainable, appropriate profitability such, you know,
8 there isn't some kind of a, you know, political or
9 otherwise backlash to change that equation. So to us, and
10 Simiso talked about it in our engagement, it's really
11 about just making sure that our -- that the portfolio
12 companies that we're invested in, public markets and
13 private markets are thinking through that real
14 sustainability lens, such that they can be profitable in
15 the short-term, but also be profitable in the long term,
16 because that's what accrues to us as a portfolio and
17 allows us to pay benefits over the long term.

18 COMMITTEE MEMBER TAYLOR: And because these large
19 profitability increases aren't sustainable, right? And I
20 forget who mentioned it earlier, but the fact that you
21 guys are presupposing this is going to come down and this
22 will stop, right, and it's being priced into the market
23 already. So I think that this short-term profit grabbing
24 is just -- I know we don't have any rules against it, but
25 it just seems so counterproductive, so...

1 And then the other thing I wanted to mention in
2 that with -- for James and the corporations doing the
3 gouging for the oil companies, how -- maybe even Simiso,
4 how do we counter that? I mean, we want those profits,
5 but on the other hand, are they -- are they following our
6 sustainability issues that we ask for them to follow,
7 right, in the Paris agreements, et cetera, while doing
8 this price gouging, you know what I mean? I'm just trying
9 to figure out how -- how they are making billions and
10 billions of more dollars on the backs of all of the
11 consumers while some of them aren't even, you know,
12 complying with our agreements. I don't know, it looks
13 like you both want to talk. So, James, you want to go
14 first.

15 INTERIM MANAGING INVESTMENT DIRECTOR ANDRUS:

16 Certainly. It's something that we're look --
17 that we're looking into. And we to realize that this is
18 something that is very, very recent. And so we -- those
19 companies are being scrutinized more than any -- more than
20 any others, especially around the financials. And so when
21 the financials come, we will actually get more information
22 in terms of what they're doing and how they're doing it.

23 On the other side, with regard to whether or not
24 they're following what we want them to do, because of our
25 work with Climate Action 100+, I have to say the answer is

1 yes. They're providing us the information. They're even
2 providing us more of it.

3 Now, granted the best example comes out of Shell,
4 an international company in their 20F, in terms of the
5 information that they've been willing to provide us. But
6 the hope is that more of those companies will provide us
7 more information and we'll get greater insight. It
8 doesn't provide you a direct answer right now, but we are,
9 in fact, monitoring and looking into it with a critical --
10 with a critical eye.

11 COMMITTEE MEMBER TAYLOR: Thank you, James.

12 Simiso, did you want to add to that?

13 MANAGING INVESTMENT DIRECTOR NZIMA: Yeah. Thank
14 you for the question. I think two -- two points. The
15 prices are set in the market, and especially when you talk
16 about commodities and stuff like that. And it's not just
17 U.S. companies, it's global companies. So there's --
18 there's not that much that, you know, investors can do in
19 terms of influencing prices, because, you know, price
20 discovery happens in the markets. So for things like
21 commodities, we don't have that ability to influence the
22 price of oil and gas. We know some of the reasons that
23 are causing prices to be high now with the geopolitical
24 risks, with the issues that are happening in Europe supply
25 chain, and that has led to higher prices. And on the flip

1 side, these same companies were losing a lot of money when
2 oil prices were low, so, you know, there's that aspect of
3 it.

4 The second aspect, James referred to the Climate
5 Action 100+ work. I sit on the steering committee of the
6 Climate Action 100+, and we've done a lot of work in terms
7 of collaborative engagements. You know, Climate Action
8 100 now has over 700 plus signatories with over \$68
9 trillion in assets under management. And we've come up
10 with a net zero benchmark -- company benchmark where we
11 actually look at the progress that companies are making
12 relative to the Paris Agreement and so forth.

13 And as an individual levels -- investors,
14 CalPERS, we actually started voting against directors
15 based on that benchmark. So when -- when we come back
16 to -- to the Board I think in September, when we do sort
17 of this season's proxy update, you will see that we've
18 actually voted against some directors in some of those
19 companies, where we felt they were laggards. And again,
20 using that benchmark which was developed by the Climate
21 Action 100. A third party actually sources the data and
22 populates that data -- that benchmark.

23 So there are many angles which we are approaching
24 this, but we agree. And as Dan said, this is about
25 sustainability, sustainable profits, because we need that

1 to be able to pay benefits in the long term.

2 Thank you.

3 COMMITTEE MEMBER TAYLOR: I appreciate that,
4 Simiso. I just -- to follow up on that, I just wanted
5 to -- I've asked this before, how -- how do we get to --
6 how do we decide that these companies aren't being
7 cooperative? At what point -- at what time, right, so
8 that -- what is our benchmark and time frame for us to
9 say, okay, you guys are just not doing this, you're not
10 getting it, and possibly, you know, readjust our
11 investments? Do we have anything on that? Because we --
12 I mean, what we're hearing now is if we don't start
13 doing -- being more productive at this by 2030, we're --
14 it's too late. So where -- where are we and do we have a
15 decision point or are we just still on the engagement
16 process?

17 MANAGING INVESTMENT DIRECTOR NZIMA: I think --
18 and I'll let Marcie answer some of that, but I think it's
19 also important to think about on the one hand as we are
20 saying we have high prices, and really this is a
21 transition to a low-carbon economy when you're talking
22 about this. The transition is not something that happens
23 right away. If it were to happen right away, where we are
24 without enough sources of renewable energy, we wouldn't be
25 able to meet the power requirements of the world.

1 And part of it is not about -- part of it is not
2 about the ability to generate renewable energy, it's about
3 the ability to store it, because in Europe energy right
4 now is still sort of an intermittent source of energy.
5 And so if you don't have the capacity to store, so that
6 when, you know, you don't have those sources, at that
7 time, then you actually end up leading to higher energy
8 costs and so forth. So this idea of a transition and --
9 you know, it's -- it has to be sort of a just transition
10 and just not going to happen on day one, but I'll -- I
11 know Marcie wanted to --

12 CHIEF EXECUTIVE OFFICER FROST: No. You answered
13 that very well. The only top -- or item I would
14 complement his comments with would be Nicole and I have
15 been discussing putting more detail in our path to net
16 zero by 2050, and so that will be a -- an upcoming Board
17 item.

18 COMMITTEE MEMBER TAYLOR: That would be great.
19 That would be helpful for us to see where we are. And the
20 transition is very important, so -- and I understand we
21 don't -- I do know that we don't have storage capacity,
22 but we also don't -- aren't seeing a lot of investment
23 into that transition, so we need to be working on that
24 engagement as well, I think. So I appreciate it. Thank
25 you.

1 CHAIRPERSON MILLER: Okay. Thank you. I have no
2 more questions from the Board. No public comment on this
3 item.

4 I will thank you. Thank the team. Thank -- you
5 know, I get the briefings and see all the hard work. And
6 so just appreciate that CalPERS continues to put our
7 values into our strategies and that staff are taking that
8 to heart, and your work James, Simiso your teams, because
9 we don't walk away from those issues. We don't walk away
10 from the table and throw up our hands and say, oh, you
11 know. We engage. We're trying to move the needle. And
12 it's a -- it's a long haul. It's a tough, tough
13 challenge, because we've also got our -- the people we're
14 entrust to serve to think about. So it's a tough job, so
15 I appreciate all the fine work that's going into it.

16 So with that, we'll move on to Investment
17 Strategy, the first 90 days from our Chief Investment
18 Officer.

19 Dan.

20 (Thereupon a slide presentation.)

21 CHIEF INVESTMENT OFFICER MUSICCO: Can everyone
22 hear me okay?

23 CHAIRPERSON MILLER: There we go.

24 CHIEF INVESTMENT OFFICER MUSICCO: Hi.

25 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: Yeah,

1 so --

2 CHIEF INVESTMENT OFFICER MUSICCO: I believe --

3 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE:

4 -- Mr. Chair, as you said, this is kind of
5 Nicole's observations for her first -- we're calling it 90
6 days, but it hasn't even been 90 days candidly, but so
7 these will be Nicole observations and so Nicole over to
8 you.

9 CHIEF INVESTMENT OFFICER MUSICCO: Great. Thank
10 you. I believe we're going to be screen-sharing my
11 presentation as well, if we could get that up as well,
12 please.

13 And just let me know when it comes up, because I
14 can't see it.

15 Excellent. Thanks very much.

16 And again, thanks again for the opportunity to
17 share my insights. It's actually been 76 days I believe
18 today at CalPERS. And I would just first like to say
19 there's been an incredible number of people helping me out
20 today to prepare. So I first would like to extend a huge
21 thank you to the team and the executive team for their
22 continued support. And, you know, I'm sitting here
23 virtually. I've been very proud of the presentations that
24 everyone has made today, so thank you for that as well.

25 --o0o--

1 CHIEF INVESTMENT OFFICER MUSICCO: So with the
2 market dynamics presentation as a backdrop, during our
3 time here, I hope to recap on our mission and vision. I'd
4 like to highlight the four pillars that form the
5 foundation of our strategic objectives. I'll share with
6 you some insights and observations from my listening tour.
7 And we'll complete this open session with a discussion on
8 what it takes to build a resilient portfolio.

9 Page turn, please.

10 --o0o--

11 CHIEF INVESTMENT OFFICER MUSICCO: I'm very happy
12 to report, as far as what I thought I could cover in the
13 first 90 days or so at CalPERS has really exceeded my
14 expectations. The entire team, as I mentioned, from the
15 executive team, the Investment staff, and across all the
16 functional partners have really made me feel extremely
17 welcome. And we've already had the opportunity to take
18 action on a few quick wins.

19 Just to highlight and we'll definitely discuss
20 these more in detail, we've been able to refresh the
21 Investment's governance and oversight framework. We've
22 introduced innovation and resiliency as a foundation to
23 our four strategy pillars of people, processes,
24 portfolios, performance. These really act as the
25 guidepost informing our Strategic objectives.

1 We then committed to a set of objectives and
2 working groups with each of the MIDs being held
3 accountable to measure and -- measure the progress and
4 deliver. And we've initiated recruitment of a couple of
5 key hires that were identified early as talent to add
6 required to execute the strategic asset allocation.

7 I would just like to remind everyone that from
8 our perspective, and we've talked a lot about this today,
9 but success, and certainly in this environment, really
10 will require a long-term commitment to our strategy
11 through all the business cycles with a renewed focus on
12 innovation, governance, agile execution, and accountable
13 for that performance.

14 Next page, please.

15 --o0o--

16 CHIEF INVESTMENT OFFICER MUSICCO: Just to recap,
17 the mission, when I arrived, was clear. It's to generate
18 risk-adjusted returns, to sustainably pay the benefits of
19 our two million members. And the vision is to work as one
20 team with a culture of trust, respect, and accountability.
21 Now this focus of working as one team is particularly
22 important in the hybrid work environment. We can't lose
23 sight of the fact that I think of investing really as an
24 apprenticeship. So involving our hybrid work model to
25 keep the spirit of an apprenticeship and a culture of

1 trust and accountability will be a very important area of
2 focus for me.

3 Next page, please.

4 --o0o--

5 CHIEF INVESTMENT OFFICER MUSICCO: As we
6 mentioned in the opening, we are in the midst of
7 refreshing our investment strategic plan, which we'd like
8 to better align with the Enterprise's '22 to '27 plan.

9 The Board's approval of the new strategic asset
10 allocation in November gives us a number of tools now to
11 deliver on the 6.8 percent target return. We've added
12 five percent leverage. We have new strategies, such as
13 private debt, as well as we've increased allocations to
14 the illiquid asset classes of private equity and real
15 assets, and increase allocations to fixed income as well.

16 The goal of the new investment governance and
17 oversight framework, that I mentioned briefly in the
18 opening, is really to create a CIO-led total fund
19 decision-making forum. The hope here is to have greater
20 accountability over performance and better risk
21 management.

22 Just to give you some insights into it, the
23 framework includes three new decision-making communities
24 chaired by myself, the CIO, that will come into play at
25 specific deal or exposure thresholds, one for final

1 of our strategic objectives in order to remain competitive
2 globally and further add to the resiliency in our
3 portfolio.

4 We've created specific working groups staffed
5 with cross-asset class teams to ensure we have both
6 diversity of thought and an increase in cross-team
7 collaboration. And we're in the midst of finalizing smart
8 goals, so that -- within the working groups that we can --
9 so that we can measure progress and outcomes and all be
10 held accountable.

11 Next page, please.

12 --o0o--

13 CHIEF INVESTMENT OFFICER MUSICCO: To give you a
14 sense of where we are most focused, I'll share a few
15 examples of where innovation and resiliency is being woven
16 into these working groups. In the portfolio, the focus is
17 really on total fund portfolio optimization. This
18 includes everything from looking at centralizing risk,
19 reporting, and balance sheet activities.

20 On our way -- we are well on our way into
21 building out our private debt strategy as well within the
22 portfolio.

23 For the process pillar, we're focused on creating
24 an investment data and tech strategy to ensure that we
25 have the tools required to execute the SS -- SAA

1 taking that approach was just to get a read of the team
2 and the culture, and to receive high level strategy
3 briefings to get a quick -- a quick read of the overall
4 portfolio before making any real decisions.

5 It's been a whirlwind, I would say. I've had
6 time with the entire team with a mix of one-on-ones and
7 team meet and greets. I got some history of the role that
8 they -- that each of the members have held at CalPERS,
9 including their backgrounds and we've had some fun
10 icebreaker type team interactions. One real positive
11 surprise that I've been left with is the depth of this --
12 of the institutional knowledge that exists at CalPERS
13 across every investment team, given the long tenor of many
14 and the history of working across departments.

15 What gets me excited about that is this can be a
16 real competitive advantage for us, especially during such
17 unprecedented times. After the meet and greets, I started
18 to circle back with the teams for high level strategy
19 reviews. This is where I just listened while the team
20 shared what was working well and where we could do more or
21 less within our strategy and our processes. This has
22 really formed the foundation of where we will spend our
23 time around our strategic objectives and the related
24 working groups.

25 I have also spent time better understanding our

1 risk and liquidity framework, which is topical for some of
2 the questions that just came out of the last session. And
3 we've already started brainstorming on risk budgeting and
4 potential active risk innovation. During this listening
5 tour, some bottlenecks to agile execution have become
6 apparent, so we're going to work on recommendations to fix
7 those. Some of them are process related, some are policy
8 focused, and others are frankly just more tech and data
9 focused.

10 And finally, as mentioned, I've initiated the
11 talent gap review, working with the teams to identify the
12 risks as much as the opportunities within the current
13 team.

14 Next page, please.

15 --o0o--

16 CHIEF INVESTMENT OFFICER MUSICCO: We've
17 discussed at length today the unprecedented market
18 volatility. So it's really been imperative that I look
19 through the lens of a long-term investor, really ensuring
20 the tools and talent are in place to build innovation and
21 resiliency through the portfolio. Specifically to achieve
22 our mission, I want to ensure that we have a full
23 potential ambition that has clear strategic objectives. I
24 want to ensure we have this -- a governance model that
25 allows for agile decision-making with management and clear

1 accountability, that not only do we have the right skills
2 and capabilities in place, but that I also foster this
3 culture of innovation, and that we value collaboration and
4 transparency across our team with the Board and with our
5 stakeholders.

6 So I'd say it's certainly been a very dynamic
7 first 75 days at CalPERS. And as I stated in my executive
8 report, our hope is to leave you today with the message
9 that, first off, we have Navigated volatile markets like
10 this before and we are prepared for what's ahead. The
11 team that's in place already has shown great resiliency,
12 great leadership and talent over the last few years, and
13 so they should all be very proud of themselves, and I'm
14 super excited to be engaging with them as we go forward.

15 The strategic asset allocation approved in
16 November prior to recent volatility is still the right
17 choice to deliver the pension promise to our two million
18 members. It's purpose built, as we've discussed today,
19 for diversification and resiliency. And we will continue
20 to evolve our strategy as appropriate, which is looking to
21 mitigate risk and take advantage of market dislocations.
22 And we are ready for both.

23 We are going to have time to dive deeper into
24 these observations and implications for the go-forward
25 strategy during our closed session. So with that, before

1 I completely lose my voice, I am happy to take any
2 questions.

3 Thank you.

4 CHAIRPERSON MILLER: Thank you. I'm not seeing
5 any questions from the Board and I don't have any
6 questions from the public on this one -- a request to
7 speak on this one, so thank you very much.

8 I know you've been putting in a lot of work and
9 getting all caught up. And the team has been very engaged
10 and everything is moving along. So I really appreciate
11 the report.

12 And we'll move to now summary of committee
13 direction. Dan.

14 DEPUTY CHIEF INVESTMENT OFFICER BIENVENUE: And,
15 Mr. Chair, I'm happy to report that I did not take any --
16 any direction this time through, so --

17 CHAIRPERSON MILLER: I did not note anything.

18 And we do have a public comment for 6d from Mr.
19 Tim Behrens. So I'd like to welcome Tim up to the
20 microphone. And the timer will be three minutes and will
21 start when you begin to speak. And so whenever you're
22 ready, you have the floor, sir.

23 MR. BEHRENS: Good morning. I think it's still
24 morning. Thank you, Chairman Miller and Committee
25 members, and members of the Board. Tim Behrens,

1 California State Retirees. I had a bunch comments I was
2 going to make. And after your lively discussion, I have
3 some new ones.

4 I really appreciate, number one, the Investment
5 Committee members and their presentations today. Every
6 time we have a back-and-forth dialogue between the Board
7 and the Investment Committee, the more I learn as a
8 stakeholder about what it looks like in the future. I
9 really appreciate the team's presentation. My favorite
10 graph was the loss in 2008, because what happened after
11 that, almost a year later, they regained all of that that
12 they lost. Well, that shows how sharp our Investment
13 Committee is at CalPERS. And it makes me feel a little
14 bit better wondering what's going to happen in 2022 and
15 2023 with the current recession, and raise in prices, and
16 all of us stakeholders on a fixed income saying please,
17 God, help us.

18 I also wanted to piggyback on something that
19 President Taylor said about the fossil fuel and how much
20 their increased money was for the last couple of years,
21 especially now. I hope that the Board, and the Investment
22 Committee, and the Health Committee will take a look at
23 the pharmaceutical people, because they have made billions
24 of dollars on the backs of us stakeholders and senior
25 citizens in the United States. And there hasn't been --

1 you know, during COVID, there wasn't a lot of expense for
2 them, but they made a lot of money.

3 And now that we're coming out of COVID and this
4 is when they're negotiating the rates for next year right
5 now with CalPERS, I urge -- and I'll beat Rob Feckner to
6 this, I urge them to sharpen their pencils on the side of
7 the Board and the side of the staff that are negotiating
8 those rates.

9 Finally, in and 57 seconds, my original question
10 was about closed meetings. My fellow stakeholders want to
11 know if it's possible for the Legal department of CalPERS
12 to give an overview of what the laws are in California for
13 closed meetings related to the CalPERS Board, so we can
14 better understand why you do a roll call, go to a closed
15 meeting, and we sit in the cafeteria for an hour or two
16 and then you come back.

17 If there's anyway that that could be massaged
18 where it took less time for the closed meeting and more
19 time for these kind of meetings, where we can -- we can
20 watch and ask questions and watch you ask questions of the
21 staff.

22 Thank you and have a good day.

23 CHAIRPERSON MILLER: Great. Thanks for your
24 comments. And I do think some sort of refresher on that
25 would be good for us to have.

1 And it's also a good segue to, you know, we will
2 now be recessing into closed session for items 1 to 7 from
3 the closed session agenda. So thanks for that segue, Tim.
4 And then we'll be reconvening and we'll probably be taking
5 a lunch break during closed session. At some point, we'll
6 get to that, and we'll be back. And I don't know if I
7 have a great estimate for what time, but we'll come
8 back -- yeah, we'll recess into closed and then we'll
9 clear the room, and take a break, and get back to closed.

10 So -- yeah, so what 10, 15 minutes to get
11 everything sorted out and start closed.

12 Okay. Thank you, everyone. This portion is --
13 oh, now, we're not adjourned. We're recessing into
14 closed. Oh, they want to hear the gavel. Everyone likes
15 the gavel. Okay. Thank you, all.

16 (Off record: 11:53 a.m.)

17 (Thereupon the meeting recessed
18 into closed session.)

19 (Thereupon the meeting reconvened
20 open session.)

21 (On record: 3:37 p.m.)

22 CHAIRPERSON MILLER: Okay. Rob likes it when I
23 do that. So we're back in open session to close out open
24 session. And so unless I hear any objections, we will be
25 adjourned for the day.

I have no objections.
(Thereupon, the California Public Employees'
Retirement System, Investment Committee
meeting open session adjourned at 3:38 p.m.)

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CERTIFICATE OF REPORTER

I, JAMES F. PETERS, a Certified Shorthand Reporter of the State of California, do hereby certify:

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

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

IN WITNESS WHEREOF, I have hereunto set my hand this 18th day of June, 2022.



JAMES F. PETERS, CSR
Certified Shorthand Reporter
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