

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

CALPERS AUDITORIUM
LINCOLN PLAZA NORTH
400 P STREET
SACRAMENTO, CALIFORNIA

MONDAY, MARCH 14, 2022

9:30 A.M.

JAMES F. PETERS, CSR
CERTIFIED SHORTHAND REPORTER
LICENSE NUMBER 10063

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

Betty Yee

STAFF:

Marcie Frost, Chief Executive Officer

Dan Bienvenue, Interim Chief Investment Officer

Matt Jacobs, General Counsel

Amy Deming, Investment Director

Pam Hopper, Committee Secretary

Matt Flynn, Investment Director

Sterling Gunn, Managing Investment Director

Arnie Phillips, Interim Deputy Chief Investment Officer

Christine Reese, Investment Director

APPEARANCES CONTINUED

ALSO PRESENT:

Axel Christensen, BlackRock, Inc.

Rose Dean, Wilshire Advisors

Tammy Dhanota, Service Employees International Union Local
521

Pramol Dhawan, PIMCO

Sandy Emerson, Fossil Free California

Christy Fields, Meketa Investment Group

J.J. Jelincic

Greg Olafson, Goldman Sachs

Michael Ring, Service Employees International Union

Sheila Thorne, Fossil Free California

Mullissa Willette, Service Employees International Union
Local 521

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CHAIRPERSON MILLER: Good morning. Welcome, everyone. I'd like to call to order the Investment Committee. The first order of business is the call to order and roll call. Ms. Hopper.

COMMITTEE SECRETARY HOPPER: David Miller?

CHAIRPERSON MILLER: Here.

COMMITTEE SECRETARY HOPPER: Rob Feckner?

VICE CHAIRPERSON FECKNER: Good morning.

COMMITTEE SECRETARY HOPPER: Frank Ruffino for Fiona Ma?

ACTING COMMITTEE MEMBER RUFFINO: Present.

COMMITTEE SECRETARY HOPPER: Lisa Middleton?

COMMITTEE MEMBER MIDDLETON: Present.

COMMITTEE SECRETARY HOPPER: Eraina Ortega?

COMMITTEE MEMBER ORTEGA: Here.

COMMITTEE SECRETARY HOPPER: Jose Luis Pacheco?

COMMITTEE MEMBER PACHECO: Present.

COMMITTEE SECRETARY HOPPER: Ramon Rubalcava?

COMMITTEE MEMBER RUBALCAVA: Present.

COMMITTEE SECRETARY HOPPER: Theresa Taylor?

COMMITTEE MEMBER TAYLOR: Present.

COMMITTEE SECRETARY HOPPER: Shawnda Westly?

CHAIRPERSON MILLER: Excused.

COMMITTEE SECRETARY HOPPER: Betty Yee?

1 COMMITTEE MEMBER YEE: Here.

2 COMMITTEE SECRETARY HOPPER: Mr. Chair, all is in
3 attendance with an excused for Shawnda Westly.

4 CHAIRPERSON MILLER: Okay. Thank you, Ms.
5 Hopper.

6 Next order of business is approval of the March
7 14th, 2022 Investment Committee timed agenda. What's the
8 pleasure?

9 COMMITTEE MEMBER TAYLOR: Move approval.

10 CHAIRPERSON MILLER: Moved by Ms. Taylor.

11 VICE CHAIRPERSON FECKNER: Second.

12 CHAIRPERSON MILLER: By Seconded by Mr. Feckner.
13 Any discussion?

14 Okay. I'll call for the question. Ms. Hopper

15 VICE CHAIRPERSON FECKNER: No. You can do it out
16 loud.

17 COMMITTEE SECRETARY HOPPER: Oh, we can do it out
18 loud. Okay. All in favor?

19 (Ayes.)

20 CHAIRPERSON MILLER: Nay?

21 Abstentions?

22 Okay. It's unanimous. The ayes have it. The
23 motion carries.

24 Next order of business is our information item
25 agenda, and Emerging Markets Panel. So Arnie, or Ben --

1 Dan.

2 (Laughter.)

3 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Yes.
4 Good morning, Mr. Chair and members of the Committee.
5 Normally, we provide an executive report to start us off.
6 However, we're going to invest some time this morning
7 discussing the emerging markets. So I'll save my comments
8 for the first -- for the, I'm sorry, the second part of
9 open session and we'll go right on to our panel here, and
10 I'll ask our panelists to please join us up here.

11 And this is a timely discussion. We witnessing
12 events in Europe, and specifically in Ukraine, the likes
13 which we haven't seen in nearly 80 years. As we know, on
14 February 21st -- 24th during a United Nations Security
15 Council meeting, Russian President Vladimir Putin declared
16 a special military action against the Ukraine. It's
17 important to take a pause here and reflect on the tragic
18 human toll, particularly for those who are fighting,
19 evacuating, and cost in the crosshairs of this really
20 tragic situation. These are truly saddening events with
21 severe costs in terms of human life and misery.

22 And we're also conscious of the fact that these
23 events are even impacting people here in our country and
24 even at CalPERS, our CalPERS teammates, our members and
25 beneficiaries, and our member agencies with varying

1 relationships to the peoples of the Ukraine, Russia, and
2 Belarus. And I can only speak for myself, but I'm deeply
3 saddened by these events and those impacted definitely
4 remain in our thoughts and our prayers.

5 Now in response to the attack President Biden
6 declared it unprovoked and unjustified and coordinated
7 with western partners to enact severe and consequential
8 restrictions and sanctions, and has continued with these
9 developing repercussions. And the conflict, and the
10 result of sanctions, have had negative direct and indirect
11 impacts on financial markets, which of course impacts our
12 portfolio.

13 Related to the direct effects, CalPERS does have
14 Russian exposures, with some direct public equity, private
15 equity, and real assets holdings in the portfolio. And
16 those investments have, and likely will continue to
17 experience some impairment in value.

18 Fortunately, however, we have no Russian bond
19 exposure. Yes, for equity, both public and private, and
20 yes for real assets, but no Russian bonds in the
21 portfolio. Also fortunately, the total Russian exposure
22 makes up less than one-fifth of one percent of our
23 portfolio, or less than 20 basis points. But we do have
24 exposures and those exposures will suffer and we wanted to
25 be clear on that.

1 We'll be working across the asset classes on how
2 we address those impacts and resolve those exposures.
3 Given the volatility of the current situation, exit
4 strategies are limited, including closure of the Moscow
5 Stock Exchange, but we're staying abreast and considering
6 options in real time on the appropriate and fiduciarily
7 responsible path forward.

8 Importantly also, we've been working with Nicole,
9 our new Chief Investment Officer, in advance of her
10 joining, but ensuring that we're getting her thoughts and
11 inputs on how to address both these Russian exposures and
12 the market volatility specifically, but also on the
13 portfolio strategy, including the ALM outcomes more
14 broadly. And these events surrounding Russia and the
15 Ukraine are a stark reminder of the geopolitical risks and
16 realities that investors must contend with when managing a
17 global portfolio like ours.

18 Emerging markets, those national economies that
19 are becoming more integrated, it's the global developed
20 markets, come with higher uncertainty and risk, but they
21 also often come with greater opportunities for growth as
22 well as diversification benefits. Investors who chose to
23 participate in these markets expect to receive a risk
24 premium, the potential for higher returns at the portfolio
25 level, to compensate for that increased uncertainty.

1 And that takes us to today's panel where our
2 experts will talk to us about investing in emerging
3 markets and the risks and opportunities that come with
4 these investments and the rationale for doing so. So I'll
5 pause there to see if there are any questions or comments
6 before turning it over to Arnie to introduce our panel
7 members and to kick us off.

8 CHAIRPERSON MILLER: Okay. Any questions from
9 Board members?

10 I'm not seeing any, so let's go forward, Mr.
11 Bienvenue, and --

12 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: All
13 right. Arnie, over to you. Take us away.

14 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:
15 Thank you, Dan. Good morning, members of the
16 Investment Committee.

17 THE COURT REPORTER: Microphone.

18 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:
19 Good morning, members of the Investment
20 Committee. We are fortunate to be joined today by three
21 experienced emerging market panelists who are responsible
22 for investing in the equity market, the fixed income
23 market, and the private markets to have a discussion on
24 investing in emerging markets across the various asset
25 classes in a diversified portfolio.

1 When we were putting this panel together a few
2 months ago, we certainly didn't foresee the increased
3 relevance of this topic. Obviously, the last few weeks
4 have taken it to a completely different level. Dan gave a
5 timely update on the Ukraine situation in our portfolio,
6 but this panel is really targeted at a macro level. And
7 so our discussion is really designed about the overall
8 emerging markets and less so about specific countries per
9 se.

10 I'll start out by having each of the three
11 panelists give a quick overview of their responsibilities
12 and their background. I'll then go through a list of
13 questions. Our goal is for it to be just a free-flowing
14 conversation. So I'll give the question out, the three
15 panelists will just jump in as necessary. Please jump in
16 from your side as necessary too. You know, the goal is
17 really a lot more of them talking and a lot less of me
18 talking. And ultimately, it is designed to be interactive
19 and your questions are certainly more important than my
20 questions. So I will adjust my questions to fit the time
21 slot as needed.

22 So with that, let's go ahead and get started.

23 Pramol, you want to give us a quick update of
24 your background and what your responsibilities are at
25 PIMCO.

1 MR. DHAWAN: Sure. Thank you, very much, Arnie.

2 My name is Pramol Dhawan. I'm the Head of
3 Emerging Markets at PIMCO. I've been at PIMCO for around
4 nine years now, prior to which I managed global emerging
5 markets at Société Générale in New York and in London. I
6 did my Master's degree at UCLA and my undergraduate degree
7 in the United Kingdom. I'm also a Board of Directors of
8 the Emerging Market Trade Association, where I represent
9 the firm on various emerging market legal issues to do
10 with the contracts.

11 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

12 Thank you, Pramol.

13 Greg.

14 MR. OLAFSON: Good morning. My name is Greg
15 Olafson. I work at Goldman Sachs. Thank you for having
16 us here today for this interesting and timely topic.

17 I've been -- I've worked at Goldman for 21 years.
18 I'm Canadian -- a Canadian citizen, but I spent most of my
19 career in Europe, almost all of that with Goldman. My
20 current role is Co-President of our Alternatives Business
21 in the Asset Management Division. Alternatives is like
22 the private equity, private credit, and so forth.

23 And so while I can speak on the broader emerging
24 market opportunity representing the whole Asset Management
25 Division, I'm flanked by two, I think, very capable firms

1 and representatives on the more public side. My comments
2 can, if you like, focus on the private side to some
3 extent, because that's where I've spent my career.

4 With that, I'll pass it.

5 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

6 Axel, last but not least.

7 MR. CHRISTENSEN: Thank you. Good morning and
8 thank you very much for having us today. My name is Axel
9 Christensen. I'm the currently Chief Investment
10 Strategist covering Latin America at BlackRock. I am part
11 of the BlackRock Investment Institute, which is an
12 autonomous entity within BlackRock, which focuses on
13 producing insights and serenity content for clients.

14 My background with emerging markets is quite
15 close, including a time span of about 25 years, including
16 the time I spent before BlackRock. I am a national of
17 Chile, so I am -- want to share the view from an emerging
18 market investor and very -- you know, I'm very excited to
19 be here today, because I worked for a pension fund in
20 Chile, so -- and we always saw CalPERS as kind of a role
21 model in terms of pension fund development in the region.
22 So I'll be more than happy to share how emerging markets
23 have evolved and how, as Arnie was pointing out, as well
24 as Dan, terms -- in terms of how diversification,
25 enhancements of return, and other aspects make it a very

1 important focal point of every portfolio in a pension fund
2 or other type of institutional portfolios.

3 Thank you.

4 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

5 Thank you, Axel.

6 And our goal was again to have broad
7 representation of both public and private markets. And I
8 think it's pretty obvious from the introductions there
9 that we should be able to talk about any asset class in a
10 diversified portfolio.

11 So with that, let's start off with a very high
12 level question. What is the role of emerging markets in
13 its various forms and asset classes in a diversified
14 portfolio?

15 MR. DHAWAN: Sure. Maybe I can kick it off.
16 Well, firstly, emerging markets is the single largest pool
17 of capital in the world. We overtook the U.S. in 2017 and
18 now represents the largest single pool of capital in the
19 world. So I think in a global portfolio context, it's
20 very difficult to ignore the largest pool of capital in
21 the world. And then when you look at the economic output,
22 EM contributes around two-thirds of global economic
23 output, but in some clients' portfolios can be less than
24 five percent of clients overall portfolio allocations.

25 Now, that being said, over time, we expect

1 emerging markets to start converging towards
2 development -- developed markets. But in terms of overall
3 allocations, as well as in terms of how institutions are
4 created, and formed, and seek to preserve the rule of law
5 and property rights. And that's an ongoing process. It's
6 more of a long-term process in nature.

7 But EM assets, within this kind of great pool of
8 capital provide income-generating assets. They provide
9 diversification as a number people have mentioned before,
10 but they also provide idiosyncratic values. We often talk
11 about emerging markets as if it's -- if it's a homogeneous
12 term. It's clearly not. This is a combination of lots of
13 different countries, lots of different risk premiums
14 combined together within the public fixed income world,
15 which I traffic in, that allows investors to have more of
16 a long-term orientation to harvest those risk premiums in
17 a sensible manner over time.

18 So when we think about EM here at PIMCO, we think
19 that it's going to be a structural source of value
20 opportunity for us. When we think about its value, pretty
21 much across every asset that you're going to here today,
22 vis-à-vis fixed income, we see embedded value or risk
23 premium in those assets. So the question is not should we
24 have it, the question is how much and in what form?

25 And I think that, you know, generally speaking,

1 we want to be very mindful of the idiosyncratic risks that
2 are present and to try and harvest those risk premiums in
3 a very diversified fashion.

4 MR. OLAFSON: I think -- I think, Pramol, that's
5 very well said. I mean, the bottom line is EM it's not
6 monolithic. It's a -- it's a big world. There's a lot
7 out there, and I think -- but it's complicated. And I
8 think the real reason we would -- we go, and where we have
9 gone, and again in my career, I started just investing the
10 firm's balance sheet. And so I was saying, you know, to
11 Pramol and Axel at the outset, 20 years ago, I wasn't
12 thinking about asset allocation. We just flowed where we
13 thought there was opportunity, and that took us to some
14 emerging markets.

15 And we would go there simply for opportunity. We
16 found great companies, we found great partners, and often
17 at better valuations, simply because, you know, it is more
18 inefficient. It's not as picked over. They're not as
19 developed. So the way that we invest, very hands-on, very
20 detailed, very on the ground played well to that. And it
21 has proven to be very fruitful over very long periods of
22 time. And then there are events, and -- you know, this is
23 partly what we'll be talking about today. You have
24 exogenous shocks. You have those in developed markets as
25 well.

1 It's just that I think that one of the common
2 futures - it's stating the obvious in these emerging
3 markets - is that they are less developed, less resilient,
4 less liquid. And so, you know -- and all of that tends to
5 sort of, you know, become correlated, you know, at once.

6 So I think there are great opportunities and we
7 have many, many examples that we can get into of we find
8 great companies and great partners, but we do it, you
9 know, one deal, one country, you know, one decision at a
10 time.

11 Axel, I don't know if there's anything you'd like
12 to add.

13 MR. CHRISTENSEN: Sure, just to emphasize. I
14 think it's quite clear if you have been looking at the
15 asset class -- if we can call it an asset class. It's
16 very diverse in nature. So that investors have been
17 pursuing primarily three, you know, points. Access to
18 higher returns, and this is, you know, traditionally
19 linked to the fact that emerging economies has -- have
20 exhibited in the last, you know, decades higher growth
21 than most of the developed world. Then also more
22 attractive valuations, made mention to that.

23 A lot of those valuations are more attractive,
24 because, yes, you are taking on higher risks, but you're
25 also investing in markets that are less efficient in terms

1 of providing more opportunities for investors that
2 actually, you know, kind of kick the tires and do more
3 research on. They're, you know, as we would call it,
4 under-researched. They're not pursued. They're not
5 analyzed as much developed markets. So there's
6 opportunities in finding value in companies.

7 And then finally, we believe that there's a
8 strong component that has to do with the gap between the
9 size that emerging markets have today, in terms of their
10 economic importance, in terms of population, in terms of
11 so many aspects that make them very relevant at the global
12 scale, that mismatch the -- you know, the role or the
13 amount of investments that financial markets have in them.
14 So to the extent that we see convergence as more
15 investment, be it public, be it private, find their way
16 into emerging markets, that also will be a very strong
17 component to make those investments more attractive from
18 an investment point of view.

19 So I have -- you know, I just want to share with
20 you a couple of numbers to give you some sense of that.
21 So emerging markets have about 30 percent -- represent
22 about 37 percent of global GDP, but they represent only
23 about 13 percent of market cap. So that tells you that
24 there's still a very big gap to be closed, and that gap
25 for us is a very interesting investment opportunity.

1 Back to you.

2 MR. OLAFSON: I just had one thing. Both Axel
3 just mentioned and Pramol as well like this notion of
4 convergence. But I don't think that's a foregone
5 conclusion. I actually think that the -- and we see this
6 notably on the private side where we are active. We come
7 in. We're either -- we may not always be in control, but
8 we certainly require protections, and rights, and
9 influences, though we may be in control. And so we are
10 affecting that converging. We're bringing best practices
11 to these companies, and that's what, in part, drives the
12 value creation. There's growth. There's the value you
13 buy at, but there's actually driving -- and it's in part
14 why we're welcomed. Like, we have a good name. We have
15 a -- people look at us as, you know, validating, but that
16 validation comes with action.

17 And so we think that that's in part how we create
18 value, is that we -- it's a little bit, you know, what's
19 going on in ESG and everything right now. If you don't
20 adopt these best practices, you're not going to achieve
21 the highest valuation. And in emerging markets, if you
22 don't adopt international norms, you're not going to be
23 able to list on the New York Stock Exchange or you're not
24 going to be able to raise capital from the likes of
25 CalPERS or others. And so we think that's just, in part,

1 what explains how you make a return.

2 MR. DHAWAN: Just one additional point to that as
3 well, I think that that's certainly true for the
4 corporates, but it's also true on the sovereign side as
5 well. If you think about what the implicit agreement is
6 for emerging market countries, especially the more
7 frontier countries that are trying to develop their
8 capital markets, they basically want to over time move
9 away from a dollarized economy, in general, not all of
10 them, but towards building out their local markets,
11 developing their local market yield curve, such that their
12 pension funds can invest in their own risk-free assets.

13 In order to be able to do that, they need to be
14 able to offer enticing yields to offshore investors to be
15 able to bring capital in, to be able to construct a yield
16 curve. And then over time, they can move away from having
17 these kind of pegged currency regimes whereby effectively,
18 if you're in a purely dollarized economy, you outsource
19 your monetary policy decisions to the U.S. Federal
20 Reserve, and that's somewhat of a lack of sovereignty on
21 those countries.

22 Over time, they want to promote their own
23 domestic currency. They want to promote their own
24 domestic yield curves. They want to build their own
25 institutions in many of the ways that Greg mentioned

1 following EM best practices. And that's really the
2 trade-off that you're making at various stages on the
3 sovereign life cycle is, you know, where is this country
4 at this particular point in the life cycle? How much do
5 they need to give up to international investors for that
6 risk premium for you to be able to underwrite their legal
7 jurisdictions? And what's the glide path going to be,
8 because you know that the politics is going to be -- is
9 going to be fragile, so you can't underwrite a four-year
10 economics -- four-year political cycle. You need to have
11 a longer term vision about the glide path of those
12 countries.

13 MR. CHRISTENSEN: Just provide somewhat of a
14 different perspective on how important development of
15 local capital markets are from the local investor base as
16 well. So local pension funds are very important, not only
17 in developing their own markets and the fact that
18 international investors would help in terms of, you know,
19 coming in with best practices, there's a lot to be said on
20 how those local investors also contribute to the
21 development of their markets as well, not only in terms of
22 providing markets for companies to access capital, and not
23 only the large corporations that probably could list in
24 New York, but probably, you know, some of the smaller
25 companies that you, by the way, can only get access by

1 investing in those emerging markets. They won't --
2 they're not large enough to be listed in larger markets,
3 so you'll have access only if you go direct, but also in
4 providing advancements in terms of proper corporate
5 governments.

6 It's interesting to say, for instance, that right
7 now in Colombia you will find a larger number of women in
8 boards than you find here in the U.S. And that has to do
9 with the fact that Colombian pension funds have been very
10 active in promoting more inclusion and diversity in
11 Colombian boards, and pension funds have a lot to do with
12 that, so -- so it's -- you know, there's a lot that local
13 investors look at global investors as role models, but,
14 you know, with a lot of humbleness, sometimes there's some
15 things that have to -- that global investors can learn
16 from local investors and institutions as well.

17 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

18 This is working much better than I even
19 anticipated, the three of you just going back and forth is
20 spectacular.

21 And you actually cannibalized my second question
22 a little bit about pros and cons. So maybe I'll change it
23 a little bit. We constantly task our internal staff with
24 checking their asset classes hat at the door and looking
25 at a total fund perspective. So we talked about pros and

1 cons here. Is there different asset classes that handle
2 the pros and cons, you know, better in the emerging
3 market, whether it's equity against fixed income, or
4 public against private? So maybe I can ask each of you to
5 check your professional day job at the door and really
6 just think holistically at a macro level on best way to
7 engage in the EM markets.

8 MR. DHAWAN: Yeah, maybe I can start. Maybe I
9 chose the wrong seat sitting right next to you. It seems
10 I have to go first all the time.

11 (Laughter.)

12 MR. DHAWAN: I think it just warrants taking a
13 holistic look. I mean, you know, privates versus public,
14 I mean there's great scope for private investment in
15 emerging markets. COVID was somewhat of a cathartic
16 issue, and to many emerging market, sovereigns
17 particularly, where they were shut out of capital markets
18 completely. Until the Federal Reserve came in and
19 backstopped the liquidity of the markets, issuers were
20 locked out of capital markets all the way through the high
21 yield spectrum to the investment grade spectrum.

22 However, those that were able to access private
23 markets, alternative sources of capital, were able to be
24 able to raise financing in most of the most trying
25 circumstances. And on top of that, those that had access

1 to local markets as well were able to morally sway
2 domestic pension funds to rollover debt during those
3 really, really tough circumstances. So whether it's, you
4 know, the relative value of local versus -- by local I
5 mean local currency versus dollars, equity versus debt,
6 public or private, I think what you will see more and more
7 from emerging market corporates and sovereigns is just a
8 it want to have as much operational flexibility as
9 possible, to know that there are different actors out
10 there that have different time horizons and different
11 orientations, and to make sure that they have access to
12 those during good times, so that when markets do drawdown
13 and when things become a lot more volatile, then they can
14 call on those sources of capital to make sure that they
15 have all the financing they need.

16 MR. CHRISTENSEN: I'll break the trend then.

17 So definitely a holistic view in emerging market
18 makes sense for several reasons. One is the fact that you
19 will get different diversification aspects. So many times
20 equity markets in emerging -- in the emerging markets base
21 are not fully representative of the economic complexity of
22 a given country. So you will access -- get access to
23 maybe state-owned or state-controlled companies, but not
24 necessarily companies that are much more relevant in the
25 economic space.

1 So if you look at Latin America, for instance, a
2 lot of the mining companies are actually held by
3 conglomerates, international conglomerates, so it's very
4 difficult to get direct access to the sector through the
5 equity markets.

6 However, they're quite active in the credit
7 market. So if you, you know, complement both the equity
8 and the fixed income market, you can broader do the
9 diversification.

10 At the same time, liquidity is also a concern.
11 But it also is a source of return and long-term investors
12 such as pension funds are very well placed to get
13 compensated for taking on that liquidity risk. And so --
14 and you can think about the inherent liquidity of some of
15 the capital markets that are not well developed, so that
16 will happen in the public markets, but also think about
17 other less liquid investments or totally illiquid, such as
18 infrastructure, in countries that are requiring a
19 significant amount of investment in those areas.

20 If they want to continue to have high growth,
21 they've done the easy part. Now, they need the part that
22 means having or maintaining high productivity and that
23 means having better, you know, roads, better ports. And
24 so a lot of investment in that area again that would
25 complement what you have in public markets is a great way

1 to capture the increased investment premia that you get -
2 you're less liquid as I mentioned - but at the same time,
3 also have a positive impact on the development of the
4 countries themselves. So They're a win-win for the
5 country, because they developed, but also for the investor
6 that they're getting very attractive long-term returns on
7 those type of projects.

8 MR. OLAFSON: So the first thing I would say is
9 that, you know, certainly when it comes to investing
10 matters, I don't really believe in absolutes, certain
11 ones, but not too many. And so sort of sitting here and
12 saying, well, I would only do, you know, either fixed
13 income, or only equity, or only public or private, I mean,
14 I think that that is all a function of how you're
15 constructing your portfolio.

16 I think Axel touched on something, you know, your
17 plan, and you play -- you should play to your strengths
18 obviously. That's what we always try to do. I think
19 that's -- so you're big, you're sophisticated, you can
20 tolerate this illiquidity and you should harvest this
21 illiquidity.

22 And so -- but be aware, I mean, you know, when
23 you go to these places, as I said before, you know,
24 liquidity will disappear with some frequency, and so be
25 ready for that, and so then don't -- and I would say

1 and -- so don't be -- or be very mindful that if you think
2 that you're taking a lower return because there will be
3 liquidity, when you need it, it may not be there, so you
4 may not be able to actually -- you know, you might just be
5 better off taking the truly illiquid, because again no
6 maxims. I'm not here like pitching the private side.
7 It's just where we have lived.

8 And then when we go on the private side, and
9 we're going direct, we have certain things that we're
10 very, very focused on how we do that. We do it -- we do
11 it by going local. Like, I think it's very dangerous to
12 be what we call more of like a tourist in these places,
13 and that does happen. Money will -- we were talking about
14 Brazil earlier, and Brazil, what did you say, it was --
15 it's always the future opportunity.

16 MR. CHRISTENSEN: No. They say that Brazil is
17 the economy of the future and always will be. That's kind
18 of the --

19 (Laughter.)

20 MR. CHRISTENSEN: -- the joke.

21 MR. OLAFSON: Yeah, but it's wonderful country
22 and a great opportunity. It's just that in part because
23 it -- I think it has such great prospects, and because it
24 is perhaps maybe easier to access, it's maybe nicer to
25 access, whatever it may be. And there have been enormous

1 successes that have come out of so many -- and a great
2 population and a big population. There's this company
3 Nubank you'll know. We were a lender to them very early.
4 We were not able to do the equity, because of -- we're
5 investing off the balance sheet. This is a company that
6 listed at \$40 billion. Now, it's worth only 30, because
7 of, you know, great opportunities.

8 The approach -- despite what I just said about
9 that debt investment, our general approach is that if
10 we're going local and we're going private into these
11 companies, we want the equity upside. We want to
12 participate in that growth. And if the mandate allows for
13 it, I think pursue that opportunity, you know, find the
14 right partners, make sure you're working with a manager
15 who is present on the ground, but also present locally but
16 with a global -- a global control function a global
17 management function, because that's how you ensure you
18 have those global norms I mentioned earlier, but with the
19 local diligence and the local understanding.

20 MR. DHAWAN: I think also what the Board can take
21 a little bit of comfort from is, you know, within the
22 public market space, the indices that one tends to invest
23 in, they have evolved a lot over the past five to 10
24 years. You know, going back into the early 2000s, hard
25 currency, sovereign bonds had maybe 20, 25 countries in

1 the index. We're up to close to 80 countries now. So the
2 index itself is promoting and propagating diversification.
3 You see that across the corporate bond space. We have
4 over a thousand different ISINs in the -- in the indices,
5 indeed in the local space as well.

6 So the index is helping to push this norm of
7 diversification as well. And I think that's really what
8 you want to have. You know, being a big manager, being a
9 long-term oriented investor, you really want to make that
10 diversification work on behalf of you.

11 MR. OLAFSON: Maybe one thing that ties this back
12 to the first question as well, and building on what Pramol
13 just said, one of the reasons to go to these markets is
14 that -- is in part what's going on in the developed
15 markets. There are 50 percent fewer public companies
16 listed in the U.S. or in the developed, I think principal
17 U.S., markets now than there were. So, you know, your
18 opportunity set is shrinking, at least on the public side,
19 while it's growing because of capital markets development,
20 because of these companies getting bigger, and accessing,
21 and listing, and so forth. So, you know, there's this
22 shift. And I think for a plan of your scale and
23 sophistication, to not be involved in that or
24 understanding that and frankly participating and
25 benefiting from it, I think would be a lost opportunity.

1 MR. CHRISTENSEN: Yeah, certainly. And it's not
2 just having access to that idiosyncratic element that
3 Pramol talked about. Emerging markets is continuing to
4 deliver global champions. Companies -- if I take a phone
5 right now, chances are a big part of the components of
6 that phone come from an emerging market, so technology has
7 been a big part.

8 I think on my way here to the west coast, I
9 probably on a Brazilian fabricated plane, Embraer. So
10 these are not just companies that are developing their own
11 industries in-house. They're becoming global champions as
12 well. They're able to compete with developed market
13 companies as well. The integration is becoming quite
14 high. And they're also coming to developed markets as
15 well. So just heard of a -- I think LG having -- which is
16 a Korean company, a joint venture with GM to start
17 building batteries for cars here in the U.S. So it's
18 coming both ways. So again, you might find yourselves
19 reinvesting in here in California through an emerging
20 market company, believe it or not.

21 MR. OLAFSON: I also flew on Embraer Air on the
22 way here. I thought of the same thing. It was -- and the
23 final thing to build on what you were -- what you were
24 just saying is, you know, you think EM partly used to, I
25 think, be very maybe natural resource driven or very how

1 did you get access, what was available, the big banks
2 locally, natural resources, maybe real estate. Those can
3 all be good opportunities, but I think the biggest thing
4 is the human capital opportunity. You know, as you move,
5 and you touched on it, to technology, and you move to
6 innovation, there are no -- I mean, borders don't mean as
7 much. Smart people exist everywhere.

8 I was in a fascinating meeting last week where
9 Mate Rimac, who's a 32-year old engineer from Croatia.
10 And I'm not saying you should over allocate to Croatia --

11 (Laughter.)

12 MR. OLAFSON: -- but he is -- he has developed --
13 he's an entrepreneur around electrical engineering. He
14 started this when he was -- and he was a car buff. So he
15 has built -- his company that he's built, which now has
16 partnerships with Porsche and many of the large -- it all
17 around EV battery technology. So he has fastest
18 production automobile in the world now. He's very proud
19 of that. But he's this 32-year old guy from Croatia. And
20 that -- who cares about supercars. It's actually the
21 battery technology and the linkages into the rest of the
22 car. That will feed into autonomous taxis and all sorts
23 of other things.

24 And so, you know, he does that from Croatia.
25 There's great innovation in -- all of over the world. And

1 again, I think, you know, you have to try to get that
2 exposure however, you know, your mandates permit.

3 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

4 So I'm going to seize on a couple things you said
5 there. So I do think the liquidity is there until you
6 need it, you know, then it's not is a good point. And I
7 heard infrastructure mentioned as an area which we care
8 immensely about and have an opportunity there.

9 How do you incorporate the regulatory environment
10 of a country, rule of law, and even ESG into decisions on
11 which countries or which asset classes to participate?

12 MR. CHRISTENSEN: Do you want me to give you a
13 break on this one?

14 MR. DHAWAN: Sure.

15 (Laughter.)

16 MR. CHRISTENSEN: Okay. So you think -- you have
17 to think about it real hard. All right. And that's kind
18 of the short answer to that. Because when you invest in
19 projects, and infrastructure, and other type of endeavors
20 that have less liquidity, you kind of, you know -- and
21 with a pension fund call -- we joked around, you kind of
22 are subject to what we call the, "Hotel California
23 Syndrome".

24 Have you ever heard it? You can come in many
25 times but you can never leave. That's sometimes what

1 happens when you invest in very low liquidity type of
2 assets. You really have to, first of all, do a lot of due
3 diligence in terms of not only what the final investment,
4 who your partners are going to be, be them global or local
5 partners, because you will have perhaps to stay somewhat
6 longer than you might have initially thought, because of
7 market conditions, because of regulatory change.

8 Now having said that, in my experience, a lot of
9 emerging markets actually welcome and are open to the
10 influence in terms of how they want to establish
11 regulation around critical sectors, such as
12 infrastructure. So it's not uncommon that they ask global
13 investors what type of structures, how should I deal with
14 these type of risks, because they understand they have a
15 limited, you know, range of alternatives for seeking
16 investments in very -- again, very long-term type of
17 projects, such as infrastructure. It's not like they can
18 fund them locally very easily.

19 So they listen to what investors have to say.
20 And then many times, they are willing to adjust regulation
21 for that investment to go forward. It doesn't happen all
22 the time, and, of course, you have to consider that. And
23 there is political change that will come with regulatory
24 changes as well. But then again, you know, you have to
25 really work hard, because once you get into that hotel,

1 it's not that easy to come -- to come out.

2 MR. DHAWAN: Yeah. Maybe I can just add. You
3 know, one way that we find it helpful to think about EM
4 corporates and sovereigns is across this notion of houses
5 and neighborhoods. You know, ideally you want to try and
6 find a good house in a good neighborhood. But
7 occasionally, there are good houses in not so good
8 neighborhoods or bad houses in great neighborhoods. What
9 you really don't want is the bad house in the bad
10 neighborhood. And that's really what you're trying to --
11 trying to avoid when you're -- when you're looking for
12 corporates.

13 But EM corporates, and Axel mentioned national
14 champions before, you know, they have a very strange
15 dynamic sometimes with national champions, particularly
16 the commodity exports in corporations, because if you
17 imagine their cash flow systems, they receive revenues in
18 dollars and their liabilities are in local currency. So
19 in the event of a crisis where currencies sell off, they
20 have what we call right way around risk on their
21 portfolio.

22 And in Brazil, you've got two of the largest
23 producers Vale and CSN, both are very much emblematic of
24 that characteristic. So they receive their revenues in
25 dollars. They pay their liabilities in local currency

1 terms.

2 So I was talking -- I was talking with the CFO at
3 Vale last week, and, you know, he was asking me, because
4 Vale has just started to trade inside of the Brazilian
5 sovereign in terms of where the credit spreads are. And
6 usually that's become, you know, I guess an unwritten rule
7 where corporates will really struggle to trade inside of
8 the sovereign.

9 And he asked me do you -- you know, do you think
10 this can continue -- this is prior to Russia and Ukraine.
11 Do you think this can continue to happen? And I said,
12 Tim, I said, you know, you've got an incredibly good
13 balance sheet. You've got almost no outstanding net debt.
14 In fact, you're retiring net debt. Iron ore are through
15 the roof and set to continue to stay high. And quite
16 frankly, you own 40 percent iron ore production. So even
17 if they come down, you can slow down production and
18 stabilize this pricing. It's a pretty good story that we
19 have there.

20 And he said, well, you know, why do the credit
21 agencies not give us benefit for that then? And I said
22 well, you know, some -- one of the exercises that we do
23 quite often at PIMCO is we take that house and we shift it
24 to another neighborhood. And we say, okay, what is that
25 credit rating bump that that corporate would get if it

1 wasn't in Brazil, it was in Australia, like the other big
2 iron ore companies?

3 And you get about a three notch credit rating
4 uplift for that particular name, just because of the
5 neighborhood that it's -- that it's in. And I say that
6 not because it's a singular example. There are many cases
7 of these types of corporates, that if you shunted the
8 neighborhoods, you would actually get a significant credit
9 uplift, spreads would tighten, equity valuations would be
10 higher, but they're kind of brought down by the
11 neighborhood that they're within.

12 And in terms of ESG, I think one of the greatest
13 ironies of ESG is that it's -- it has tended under its
14 current guise to traffic money into those corporates that
15 just don't need it or need it the least.

16 Much of emerging market, especially middle income
17 countries, really do need ESG development. They need to
18 be able to really think critically about how to move
19 themselves away from fossil fuel dependencies into much
20 more renewable sources of energy. Lots of very
21 interesting projects.

22 We just completed one in the ivory coast, which
23 was to build an asphalt, 634 kilometers of roads linking
24 the most impoverished areas of the country to the existing
25 infrastructure network. And that allows for people to get

1 to hospitals and to get to schools in just a much shorter
2 time period. But just to give the panel an idea, it took
3 over a year for us to get comfortable with the use of
4 proceeds of the funds to make sure that the Ivory Coast
5 and our partner JP Morgan during this were -- they did to
6 the UN SDGs, and to make sure that we had a process of
7 monitoring and checking that was consistent with a large
8 investment.

9 And although I would say that, you know, it's
10 certainly very clear in my mind that EM requires and needs
11 a lot more help on the ESG side, it's very fair to say
12 it's harder and a little bit more murky on the emerging
13 market side. So I think that it just -- it warrants, you
14 know, and increase level of diligence when you do those
15 types investments.

16 MR. OLAFSON: Yeah. Look, I think that's all
17 very well said. I mean, the -- our experience -- you're
18 going places where there -- you're -- and I spent actually
19 a number of years in Africa for Goldman very under the
20 radar, balance sheet thing, and it was fascinating, but
21 the institutions are not as strong. Your knowledge of
22 these countries is not as well developed. I think your --
23 the diligence you need to do -- and, you know, to Arnie's
24 point, I mean, there -- some things will go wrong
25 despite --

1 CHAIRPERSON MILLER: Could you get a little
2 closer to your mic.

3 MR. OLAFSON: I'm sorry. Is that better?

4 CHAIRPERSON MILLER: There we go, a little
5 better.

6 MR. OLAFSON: Yeah. Sorry. Things will go
7 wrong. And you have to be prepared I think as a Board,
8 not withstanding the best efforts you, your partners, your
9 advisors, everybody will make, something bad, unfortunate
10 will happen. It might be a macro thing, it might be a
11 micro thing, but I don't think that those should color the
12 broader opportunity. The opportunity is too large to
13 ignore. If you think about ESG, which is a very
14 complicated topic, certainly on their -- on the
15 environmental side of things, it also doesn't respect
16 borders. I mean, climate change is not a region thing.

17 And I think this point about technology and the
18 role that will play, you know, alternative energy, if
19 China really is determined to zero carbon by 2060, we
20 think that's a \$16 trillion investment opportunity,
21 whether it's local or international. I mean, that's just
22 gargantuan. And that's just that country. And you focus
23 on that country, because they're probably one of the
24 larger contributors to emissions along with developed
25 countries as well.

1 So there are great opportunities. You know, on
2 the S side, I think again be very, very careful. There
3 are many, many things that we won't go near. I think
4 though we can also learn in terms of -- and it can be
5 quite -- I don't know if we can learn, but this
6 approach -- and it can be very volatile, that, you know,
7 China has taken on this common prosperity approach, where
8 they have basically just enforced -- I'm not exactly sure
9 why they do that. It's either enlightened or maybe
10 they're trying to make a point, but, you know, enforcing
11 around tutoring and things.

12 And then that has a great impact on that
13 industry, many of which were listed internationally. So,
14 you know, these are complicated topics. I think there --
15 it's not that you can't, I think, participate in the
16 promotion of -- in fact, you have to participate in the
17 promotion of these best practices, but we, I think, can
18 find opportunities if we do it in a very diligent way.
19 And I think you could as well.

20 MR. CHRISTENSEN: Let me just add to comment on
21 the opportunities that cling to ESG. As we see it, it's
22 almost like a no-brainer in one sense. You know, meeting
23 some of the emission standards are global objectives. If
24 the UE -- if the U.S. meets net zero omissions let's say
25 in 2050, but the rest of the world, including most of the

1 emerging markets don't meet them, it's not going to be of
2 any -- of any purpose. We need to get out of this
3 altogether.

4 So because of emerging markets needing a lot
5 investments for that transition to happen, there are
6 actually going to be significant recipients of
7 investments, because as Greg and Pramol correctly pointed
8 out, that's where there's more dependency on carbon. So
9 we understand the huge challenge that emerging market
10 economies face, but we also look at it from the
11 perspective of the opportunities of investment.

12 They will need investors -- long-term investors,
13 such as yourself, to help them in that transition to meet
14 those net zero commitments that they've made. And that's
15 not no small amount of money. We actually think that if
16 we can -- and it will require probably the cooperation of
17 the private and public sectors altogether, including, you
18 know, the multi-laterals. This will be a very, very
19 challenging endeavor to fund the investments needed for
20 this to happen.

21 So it's a challenge, but it's also probably -- I
22 would want to say probably the investment opportunity of a
23 generation in terms of the size, but the complexity as
24 well. It's not going to be easy. There's several issues
25 that we're brought, Greg and Pramol. It's not easy, but

1 definitely the opportunity is there.

2 MR. OLAFSON: Yeah. And there are good examples.
3 I mean, we started a solar and wind, so an alternative
4 energy business in India called ReNew. And obviously
5 India has a huge dependency on coal -- on coal-fired
6 power. The -- they have this production deficit. With
7 the kind of decline in the cost of photovoltaics and, you
8 know, the increased efficiency of wind, we were able to
9 establish what became the largest renewable energy company
10 in the country and then successfully listed it.

11 Now once it lists, it sort of trades down,
12 because, you know, it's -- emerging markets were selling
13 off, and maybe there's some uncertainty about kind of the
14 future opportunity, and what those rates will be.

15 But if you take a very long-term view, the fact
16 that it's down a little bit from where it listed, it
17 doesn't matter. We demonstrated you can start this
18 business, scale this business, list this business. And
19 that opportunity continues to be enormous.

20 So look, one of the things you're hearing us say,
21 I think if you're going to invest in these other markets,
22 I think you need to be very committed to it. You need to
23 be very prepared for the volatility, which again,
24 you're -- the plan you manage certainly can tolerate.
25 You're going to have to be prepared for, you know, some

1 things where you -- you know, as was said, even if you
2 want to get out, you won't be able to get out. So again,
3 manage size and be prepared for that eventuality.
4 Hopefully, it doesn't happen very often.

5 And I would say, you know, you don't -- like
6 anything, when -- whenever we would start a new business,
7 we would start quite progressively. I think it's good to
8 learn. It's good to get comfortable. These are very --
9 it's a very complex -- which is why answering the question
10 what would you -- like where would you go, where wouldn't
11 you go. I don't think it's lie that. I think you just
12 learn and you say where does it fit in our -- in our -- in
13 our plan.

14 And I think just you require just - and we keep
15 coming back to this - just extra vigilance, because, you
16 know, the institutions are not as strong in many of these
17 places, and so -- and we don't know our way around as
18 well, as you do, you know, in this great country.

19 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

20 Hey, Greg, you mentioned commitment there. And
21 the old saying, you know, be scared when others are
22 greedy, be greedy when others are scared, what is the
23 experience -- your experience with investor's ability to
24 stay the course and how does it play out if they're unable
25 to or unwilling to?

1 MR. OLAFSON: It's essential. It's always
2 essential. And this is why I think it's -- you know,
3 you're being very thoughtful. You're -- you know, the
4 timing is a little, as we said, uncanny that we're having
5 this discussion now, but that's just a demonstration of
6 how thoughtful the plan and the Board is.

7 You don't -- certainly don't rush in now or at
8 any -- but if you're doing your work and you've -- you
9 know, you're prepared, then I do think there -- there's a
10 great benefit to being dynamic in these markets, because
11 they will provide that opportunity. And, yes, it's always
12 hardest to invest at the best moment, notably because you
13 don't know it's the best moment. If you did, it would
14 be -- it would be easy. But I think you have to have
15 the -- you know, the courage of your convictions founded
16 on being prepared and having the right relationships, the
17 partners, in place, and, you know, that I think will
18 create enormous opportunities.

19 MR. DHAWAN: Yeah. We used to do -- use this
20 maxim in saying that emerging markets is not a trade, it's
21 an investment, and I really believe that. I mean, it's
22 meant to be a for longer term orientations. And you kind
23 of see that a little bit in terms of flows in and out of
24 the asset class. They really are bifurcated between
25 retail and institution.

1 Institutional flows have been steadily increasing
2 to this asset class over the past decades, and really use
3 the market drawdowns as ways in which they can dollar cost
4 average into what they think is a long-term orientation
5 towards harvesting risk premium.

6 On the other side of ledger is much more of the
7 retail flows. Your kind of traditional 401(k) type
8 investors, but global -- globally. And they tend to be
9 much more sensitive to, you know, headline risks or news
10 events. And that propagates market flows. And both can
11 be powerful, but what I -- what I would say is that you
12 know this is an asset class that does have over time more
13 institutional demand that wants to look to reallocate to
14 it.

15 Therefore, I would expect in bouts of volatility
16 that those drawdowns are opportunities for people with a
17 longer term orientation to, as Greg said, mindfully,
18 intentionally gradual build their positions.

19 MR. CHRISTENSEN: Yeah. I'll probably add, you
20 know, sometimes the lack of liquidity can be a blessing.
21 And what am I talking about? Is that you're forced to be
22 much more active in your investments. Sometimes too much
23 liquidity can make you lazy as an investor. If you make a
24 wrong decision, you just sell. If you have to invest in
25 liquid investments, it makes -- you have to be much more

1 rigorous. At the end of the day, you kind of are forced
2 to live with your mistakes, right? So you have to be much
3 more rigorous in terms of investment. And this is more
4 coming from my personal experience before joining
5 BlackRock is you actually have to get involved with
6 companies.

7 If you want them to change, it might be in terms
8 of their strategy. It might be them nowadays in terms of
9 embracing sustainability. You cannot just, you know, be
10 an observer as an investor. You have to get involved.
11 You have to be much more active as a shareholder. In many
12 parts of the emerging market world. You'll probably have
13 to engage with the controlling shareholder to have those
14 changes happen, to allow for your investment to, you know,
15 generate value. So it's certainly a challenge. I think
16 for larger investors as yourself, I think that is
17 certainly something that you can do. Certainly, in my
18 part of the world, you've seen other pension funds, you
19 know, some Canadian pension funds come to mind that have
20 been actively engaged in the investments and do not look
21 the lack of liquidity, so much as a problem, but actually
22 as a way of them to be very rigorous and to get involved
23 in terms of making the changes a lot of these companies
24 have to put forward to create the value or manage the risk
25 that they're facing.

1 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

2 So, Mr. Miller, maybe I'll close with one last
3 question and then see if there's any questions on your
4 side. So internally, we're assessing whether, you know,
5 the events of the past few weeks are moving us to sort of
6 a new world order. We certainly acknowledge it's clearly
7 too early to tell that at this point, but certainly
8 interesting how quickly the west and partners came
9 together, interesting on a number of countries have not
10 publicly, you know, stated anything at this point.

11 So we're really doing analysis to see if -- you
12 know, what this impacts our historical looking view. So
13 as we test our thesis, you know, on all markets, I'm
14 curious if the three of you maybe could comment on any
15 lessons learned from the past few weeks, and what it means
16 in what appears to be a more volatile world, at least for
17 the coming time.

18 MR. OLAFSON: So let me start. I mean, it's --
19 so I was in -- that's why I said, I said I spent a lot of
20 my life in Europe, not because -- just sort somehow I
21 wound up there. So I was in France in November '89 when
22 the Berlin Wall came down. I didn't actually have the
23 foresight to get up to Berlin to have -- it would have
24 been a good party I guess, but I was there, and then these
25 events happened. And that feels like -- and, you know,

1 I'm -- you know, that's most of adult life, and that's
2 tragic. I'm not going to sit here and give you any
3 prognostications on what that means and where it -- but it
4 doesn't feel like progress and I think it's tragic.

5 The -- I think we should not ignore what's going
6 on. You should -- obviously, you have to factor that into
7 your thinking. And maybe people can say after the fact,
8 oh, that was obvious. You should never have had exposure
9 to Russia or the former Soviet Union. I don't believe
10 that. I think there are great people. There were great
11 opportunities.

12 Same with, you know, clearly, the world is -- you
13 know the -- and I don't want to stray into political
14 things, but like the rise of China is an extraordinary
15 event in both economic and in geopolitical terms. So
16 thinking all of this through is complicated. If you look
17 at returns, just our Chief Investment Strategist for the
18 GSAM side, a very astute woman, has had this bias for, you
19 know, America for well over a decade and it's worked
20 incredibly well. The innovation that comes out of this
21 country, and -- Sharmin is her name. And I just think
22 that it's very hard to know where this is going. They do
23 feel like big tectonic plates shifting. You will be very
24 well advised and think this through.

25 But I think what we're seeing here is that, not

1 withstanding all of that, we -- you know, we have been
2 able to find great investment -- investing opportunities.
3 Sometimes it's factored through the price, which is maybe
4 where this adjusts now, so you find your opportunity, but
5 always -- you know, at least from where I've operated,
6 with that maniacal focus on who is your partner, and
7 that's your investing partner who's taking there, and then
8 who are they working with. And it doesn't matter whether
9 you're doing that here or there. You've got to choose
10 your partners well. There's just a greater premium on
11 there. Maybe I'll stop there and pass it back to you.

12 MR. DHAWAN: Yeah. I think Greg mentioned a lot
13 of really interesting points there. I think we have kind
14 of shifted a little bit into a so-called new order or new
15 world order, one in which, you know, we haven't really
16 full internalized what the consequences are, but just to
17 offer some high level thoughts more so than any kind of
18 diagnostics.

19 You know, I think we really have to question
20 supply chains now. I think COVID was the first
21 manifestation of it and this is the second. Thinking
22 through about just-in-time production being, you know,
23 quite optimized in terms of deliverance of goods and
24 working into a global ecosystem, you know, we had
25 conditioned ourselves for a number of years on really

1 trying to optimize and cost crunch on supply chains.

2 Now, I think there's a lot to be said for
3 building and producing domestically or within your
4 domestic sphere of influence, not just because of the cost
5 of doing it, but just the availability of those goods, and
6 the need of having those goods versus just not having them
7 as is the case quite often right now on the semiconductor
8 side.

9 I think in terms of sanctions -- economic
10 sanctions and economic warfare, Russia is the most
11 sanctioned country in the world now, far supersedes Iran
12 and North Korea. It's not just the number of sanctions,
13 but the speed of which we've gone through the gears on
14 sanctions, which I think is going to set a new normal for
15 future activities.

16 You've really raised the bar in which this
17 administration, in coordination with the Europeans, has
18 moved to the most severe forms of sanctions in just an
19 expedited time period.

20 And I think that that's going to change
21 behavioral characteristics, especially if you're thinking
22 about where you have your reserve assets. It never used
23 to have to be a thought that you have your reserve assets
24 domiciled in a specific currency parked out either the New
25 York Fed, or the Bank of England, or the BIS. Those

1 assets are attachable now. We've created precedent to
2 attach reserve assets.

3 And I think that when countries are thinking
4 about -- through about where they want to put those assets
5 in which countries, or currencies, or crypto, or physical
6 assets, you know, those things will need to be thought
7 through going forward.

8 I think inflation is a natural by-product of
9 this. On, you know, almost any which way you slice and
10 dice this, it becomes more inflationary through the
11 supply-side dynamics, which I said before where people are
12 just less price sensitive on goods and focused more on
13 the -- you know, just the need of the good versus the cost
14 of the good, through the expansion of deficits in Europe,
15 and the move to a two percent military spending across
16 Europe. It's going to be inflationary.

17 The commodity price squeeze is, you know, very
18 much supply-side driven, given all of the shortages and
19 the difficulty in terms of shipping. Ten percent of
20 global maritime staff are Russian, five percent are
21 Ukrainian. It's not just the difficulty shipping, but
22 getting personnel to operate those cargo ships.

23 But there is a significant demand-side pressure
24 to inflation as well, as we see in this country where the
25 labor market is very hot. Any which way you slice and

1 dice the labor market, we're at or through full
2 employment.

3 And then finally, I would just say, and again
4 these are just more kind of stream of consciousness of
5 thoughts. You know, choosing partners, we talk about it,
6 or Greg has spoken about it at a corporate level, I think
7 it's going to become increasingly more important which
8 side of the divide that countries are on. And I don't
9 think you're going to get to sit on the fence for much
10 longer. I think such is the acuteness of this particular
11 crisis, and this is a very acute crisis. I'm not trying
12 to belittle it. But I would say that, you know, in the
13 past six years, Europe has had six different wars. Russia
14 has been involved in all six conflicts. This is the sixth
15 conflict. So there is a center point of an issue across
16 Europe and it tends to revolve around Russia.

17 But I think that when you go through these kind
18 of, you know, momentous or tectonic type shifts, then you
19 have to force to pick sides. And countries that have sat
20 on the offense will perhaps not be able to sit on the
21 fence any -- for much longer.

22 MR. CHRISTENSEN: Arnie, I think that -- the
23 question in terms of if there's any lessons learned, I
24 think a lot of what professionally I would think and want
25 to share with you have been, you know, very exceptionally

1 laid out by Pramol and Greg. But I have to kind of share
2 with you personally, it's very hard because to think
3 about, you know, just on the professional side,
4 understanding how deep a humanitarian crisis this is,
5 there -- and it brings me to -- you know, and I see that
6 you probably face this as a Board as well, understanding
7 that there are actually people at the end of what one does
8 and in the decisions that you make. And our investments
9 in the region, in Russia and Ukraine, there are people
10 that get impacted by the investments we've made or perhaps
11 at the investments we are not making anymore.

12 And in the same amount, the impacts on the final
13 beneficiary of who trusts the savings to, you know, these
14 exceptional, you know, institutions that I share with
15 really kind of, you know, I think forces us to bring
16 back -- it's not just numbers and it's not just returns,
17 it's actually people. And that -- it's very important
18 that we not, you know, forget that.

19 If anything, you know, there are experiences in
20 the past of countries that were very important that
21 suffered sanctions. In my place of the world, probably
22 Venezuela is the best example of that. And it definitely,
23 you know, made the richest country in the region --
24 Venezuela was by far during the 80s, you know, my image --
25 it was -- Caracas was the only capital where the British

1 Airways Concord flew in the region. It was that rich.
2 And now it just has just surpassed Haiti as the poorest
3 country in Latin America.

4 So these type of decisions have very long-term
5 impacts that affect people. The immigration out of
6 Venezuela to the rest of the continent has been
7 substantial. It has been a challenge for a lot of the
8 countries to accommodate a lot of these people. It also
9 brings, believe it or not, opportunities. In Colombia,
10 several engineers that used to work at the Venezuelan oil
11 company were able to set up businesses that started to
12 pump oil out of Colombia next to the Venezuelan border.
13 And they did not do that before, because they didn't have
14 the human capital that the migration from Venezuela
15 brought.

16 So this is a tragedy. I think it would be very,
17 very difficult not to acknowledge it. I think it -- at
18 least for me, you know, that my kind of day to day is on
19 the returns and what happened with markets. That's
20 important. But I think it is a very, very strong reminder
21 that at the end of the day, definitely for me and
22 hopefully for you, there are people that we have to never
23 forget that are affected by decisions we make. And
24 certainly emerging markets, maybe those impacts or those
25 effects are going to be much more significant than in

1 developed markets.

2 Thank you.

3 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

4 Thank you for those final thoughts. Mr. Miller,
5 back to your side before I close, if you have anything.

6 CHAIRPERSON MILLER: Great. Yeah. Thank you.

7 And thanks to the panel. I mean, this has been so timely
8 with everything going on. And with us grappling with, you
9 know, what's a tactical level change, what's mid-term,
10 what's really suddenly now become more of a strategic
11 issue with all of this, especially with the Russian
12 invasion of Ukraine brings it all home to us as we grapple
13 with this.

14 And I do have some questions from the Board. So
15 I'll start with Theresa Taylor. Let me see if I can make
16 this work.

17 COMMITTEE MEMBER TAYLOR: There we go.

18 CHAIRPERSON MILLER: Oh, wait a minute. I turned
19 them all on. Okay. Let me go back up to Theresa Taylor
20 and see if I can get her.

21 COMMITTEE SECRETARY HOPPER: She's on, David.

22 COMMITTEE MEMBER TAYLOR: I am on. Yeah, pretty
23 sure.

24 CHAIRPERSON MILLER: I think I've got everybody
25 else too, but...

1 COMMITTEE MEMBER TAYLOR: Thank you, Chair
2 Miller. I just wanted to thank you all for -- this is a
3 very fulsome presentation and I took a lot of notes, and
4 it was really, really good. I also appreciate very much
5 that you brought in the ESG strategy and making sure to,
6 you know, let us know that these emerging markets also
7 need the capital to expand into ESG. We often forget
8 about that, right, that we have capital here in this
9 country and we think about just this country. We don't
10 understand that to make this a worldwide success, these
11 other countries have to take part in it.

12 I guess I wanted -- so there was a couple of
13 questions I had. At the end here, and I don't remember
14 which one of you said it, you talked about the expansion
15 of inflation, because of several fact -- oh, that's right.
16 It was you Mr. Dhawan -- with the several factors. Could
17 you expand on that just a little bit for me.

18 MR. DHAWAN: Yeah. So firstly, from a supply
19 chain side --

20 COMMITTEE MEMBER TAYLOR: Right.

21 MR. DHAWAN: -- we're seeing all sorts of
22 logistical back-ups. You know, you see it in the Ports in
23 Long Beach and across the world. You know, difficulty to
24 get goods. When those goods do come, it's difficult to
25 get workers to operate them, given that, you know, fifteen

1 percent of the maritime staff are from Russia and Ukraine.
2 Emerging markets in particular, they have a slightly
3 different composition of CPI and the way that they
4 construct their baskets. About a third of their CPI
5 baskets come from food and energy.

6 So when you have these kind of supply-side
7 shocks, then typically inflation manifests in a much more
8 acute fashion across the emerging world, and that
9 propagates Central Bank reaction functions. So much of
10 last year, I know we haven't -- we're on the eve of a
11 Federal Reserve tightening cycle this year, but for much
12 of last year, it was a year that EM Central Banks did a
13 significant amount of adjustments, taking nominal policy
14 rates to multi-year high levels to try and fight some of
15 those inflation trends that we're seeing here in the U.S.

16 COMMITTEE MEMBER TAYLOR: Thank you. I
17 appreciate that. There was -- then the other thing that
18 you had mentioned was that the wealth that's seeded
19 outside the country, right, because it's in dollars or
20 whatever, that has now become attached, I guess, for the
21 first time at least in Russia, so -- and that has an
22 impact worldwide. Is that something you foresee us, and
23 Europe, or others using maybe even against us in the
24 future, so that this kind of wealth gets attached and
25 can't move?

1 MR. DHAWAN: Yeah. I think it's a major source
2 of debate right now as to how much of these sanction
3 actions will impact the future value of the dollar as
4 being the world's reserve currency. And SWIFT being the
5 predominant payment mechanism for financial transactions.
6 I think the reality is none of us really know. We can
7 kind of speculate as to what alternative sources are out
8 there. But I would -- I would venture to guess it's going
9 to be a very, very long time before any real alternative
10 can come from both the reserve currency being the dollar
11 or SWIFT from a payment system.

12 The Chinese alternative of the payment system has
13 one-fiftieth of the number of participant financial
14 institutions and most of those are Chinese banks. So it
15 certainly doesn't have the worldwide recognition that the
16 SWIFT has, which is 11,000 financial institutions
17 globally.

18 On top of that, if you think about the dollar as
19 being a reserve currency and the assets -- the commodity
20 assets they're traded in the -- in the dollar, it still
21 becomes incredibly difficult for the global financial
22 ecosystem to move away from that just based on these
23 sanctions. What you may find in the interim part is that
24 energy will be traded amongst people that are on the other
25 side of the debate, the people that don't chose to follow

1 the western side. And those transactions may be settled
2 out -- out of U.S. currency. We had already started
3 seeing this prior to the Ukraine invasion, where China and
4 Russia were settling transactions in Renminbi and in
5 Russian rubles. I think that that's likely going to
6 amplify the seeking for alternative sources of
7 non-attachable currency transactions.

8 COMMITTEE MEMBER TAYLOR: And then finally, and
9 I'm sorry for taking up so much time you guys. I think --
10 as we move into this emerging market space, and you talked
11 about, you know, making sure that we're, you know, giving
12 opportunities, but at the same time doing our due
13 diligence, but how do we not do our due diligence and look
14 at the geopolitical affects of say a China, or a Russia
15 when they -- as we saw this happening, right? So it's the
16 same thing with China, they've become entrenched
17 autocrats, right, so -- and they made their power longer.
18 I think China has made their leader power -- in power for
19 life, as I understand it.

20 How do -- how do you continue to invest in these
21 markets knowing -- and they've made -- they've made the
22 same kind of noise that Russia has made and done the same
23 kind of thing. So how do we continue to take these
24 markets and invest in say China right now when we know
25 that a war could start over Taiwan, right?

1 MR. DHAWAN: Maybe I can start on that.

2 (Laughter.)

3 COMMITTEE MEMBER TAYLOR: It's a tough one, guys.
4 Sorry.

5 MR. DHAWAN: Well, I think that this goes back to
6 the point about the indices and diversification, the 75
7 countries in the indices. And right now, two of them are
8 hot topics and they tend to be two big ones right now.
9 And, you know, Russia is very clear. And it's TBD on if
10 China does do something in Taiwan or doesn't. I would
11 suspect that the probabilities of them doing it have
12 probably gone down since these very aggressive sanctions
13 have been put into place. And, if anything, you know, you
14 take a look at the Russian economic fallout, whereby
15 you're having two percent week over week inflation on food
16 baskets. We're projecting somewhere between 12 and 15
17 percent economic contraction this year. Probably likely
18 to be on the conservative side. Probably going to be much
19 higher than that. There's an outright ban for people to
20 get dollars out of the country now.

21 So you really -- sadly, you know, these types of
22 sanctions, these types of regimes tend to hurt the lowest
23 and the working class, and the middle class, not the
24 autocrats that run the country as you said. But I
25 would -- I would go back to saying that it is a big,

1 diversified, complex. With more countries coming into
2 these indices, it dilutes out the concentration for some
3 of the bigger names. And I think that over time, you can
4 harvest those types of premia. And as more countries come
5 in, just by definition, you're minimizing those
6 idiosyncratic risks.

7 COMMITTEE MEMBER TAYLOR: Thank you very much.
8 Thank you, gentlemen. I appreciate the presentation.

9 CHAIRPERSON MILLER: Okay. Next, we have
10 Controller Yee. Let's see if we can get the --

11 COMMITTEE MEMBER YEE: Great. Thank you very
12 much, Mr. Chairman.

13 Really appreciate the presentation and both
14 really trying to have us view this at a macro level
15 relative to having our eyes open going into EMs, but also
16 the very real present day experience that we're all
17 reading about and experiencing here at home.

18 A couple questions. One is I really appreciated,
19 Axel, your comments about, you know, just the almost, you
20 know, kind of built in commitment to looking at how you
21 build resilience and, you know, kind of sustainability
22 over time and was very heartened to hear about some of the
23 corporate governance policies that are actually taking
24 place and certainly appreciate your on-the-ground
25 perspective of that as well.

1 And -- but I guess when I kind of look at this
2 whole kind of ESG kind of body, you know, it seems that we
3 have a real potential here with emerging markets to be
4 sure that the one capital -- source of capital you talked
5 about, human capital, that we have a tremendous potential
6 of trying to drive Creating value for human capital. And
7 I raise that only because we're a public fund and we're
8 highly scrutinized. We take out a lot of reputational
9 risk, earner or unearned, mostly unearned. And I just
10 wanted to kind of get your sense about whether that is an
11 area of focus. And certainly when we look at, you know, a
12 lot of global events around migration and, you know, and
13 climate change, and pandemics, but kind of your thoughts
14 about that, whether that is a potential, whether that's a
15 current area of focus, and whether we can actually help
16 drive that.

17 MR. CHRISTENSEN: Sure. And I appreciate the
18 question. I think it's a very important question. And I
19 want to go back to something I mentioned before that maybe
20 you want to leverage the fact that emerging markets are
21 less liquid.

22 COMMITTEE MEMBER YEE: Um-hmm.

23 MR. CHRISTENSEN: And why is that? Because again
24 you have to be part of the change. Divesting is kind of a
25 luxury you don't have in a lot of emerging markets. You

1 just can't vote with your feet. You just can't kind of,
2 you know, go -- just run away. You have to be involved.
3 And so -- and that -- that is something that I've been
4 able to experience personally at a pension fund in Chile,
5 but also in terms of what -- how we've kind of faced this
6 issue at BlackRock is, you know, probably there are many
7 ways to get to the objectives, and we don't want to say
8 this is the only one, but we do think, and this might be
9 the case for larger investors as ourselves and perhaps
10 your case, it's -- divesting is not an option. You have
11 to get involved in being an agent of change, and using
12 your powers as a shareholder or as creditor to convince
13 other shareholders and management of the benefits of
14 this -- of making those changes.

15 And it's not easy and it's certainly -- you know,
16 public opinion has different, I would say, sensibilities
17 about them, some want you to go super fast. Some are
18 still skeptical about climate change. And you have to
19 find, you know, something that kind of addresses all of
20 the different perspectives on this.

21 But definitely, if anything we can bring from
22 emerging markets, you want to be -- and if you -- and this
23 is especially the case if you're an investor with public
24 scrutiny, because think about what would happen if you
25 divest. Chances are, you know, someone will invest,

1 probably someone who is hot under public scrutiny, and
2 probably will not be as active in promoting the changes
3 that we need.

4 And as we -- you know, I think the important part
5 is also to understand, you know, being active in promoting
6 sustainability in a company's investments is not
7 disaligned with, you know, greater return objectives.

8 COMMITTEE MEMBER YEE: Um-hmm.

9 MR. CHRISTENSEN: It's -- you know, as well as
10 managing your risk in an appropriate fashion. I think,
11 you know, it's quite obvious by now, and I think
12 California you know it better than anyone, climate risk is
13 investment risk. If you don't understand it by now,
14 you're not meeting your fiduciary responsibility, if
15 you're an institutional investor. So, you know, we think
16 that emerging markets in that perspective kind of, you
17 know, makes us whole in terms of being involved as an
18 investor, being an actor of change. So we think that that
19 is the way that we would approach it. Again, there are
20 different profiles of investors, some are larger, some
21 are -- I guess have different commitments from their final
22 beneficiaries.

23 But at the end of the day, we are committed to --
24 most of the money that we manage as a manager is long-term
25 investment and people are, you know, trusting that we make

1 the right decisions. And promoting change in terms of
2 sustainability we think is in that direction.

3 COMMITTEE MEMBER YEE: Um-hmm. And I appreciate
4 that. Yeah, very much top of mind with most everything we
5 do here, so appreciate the response.

6 We talked about lessons learned. And I was
7 curious about lessons learned pursuant to the COVID
8 pandemic. I mean just what did you see across emerging
9 markets relative to the resiliency and where were some
10 trouble spots?

11 MR. OLAFSON: I mean, look, COVID was an
12 extraordinary challenge for every society and economy, and
13 it isn't finished. I mean, you see the events in Shenzhen
14 over night that were referenced. I mean, they're shutting
15 down factories there.

16 I would -- look, the -- we talk about the, you
17 know, in some level the fragility, or the lack of depth,
18 or the institutions, but at the -- at the level of the
19 people, what Axel said before, when you go to these
20 places, they're incredibly resilient countries and
21 societies. And it's not to diminish the human toll of
22 COVID as well, but I -- but I think they -- you know, we
23 have quite large offices in India. I remember, you know,
24 in -- you know, in the very early days when I was -- I was
25 in Manhattan and it felt -- it felt quite frightening, but

1 quickly I think, through the extraordinary innovation and
2 response, you know, our societies were able to handle
3 that.

4 The scale of the challenge -- I mean, you
5 remember those images of the -- I mean, they didn't have
6 the oxygen and things for these hospitals, so -- and when
7 we were speaking with our colleagues there and the impact
8 so them and their families was tragic. Now -- but they --
9 they're resilient. They worked through it at great cost.
10 So I think it gets back to these places are very
11 resilient, I would say.

12 COMMITTEE MEMBER YEE: Any other thoughts from...

13 MR. CHRISTENSEN: I would just add that probably
14 remember just the diversity that we find within the
15 emerging market space. Different countries took different
16 routes. Some were very strict on confinement and we're
17 still seeing the results of that. Some other countries
18 were really focused on getting vaccine programs in place
19 with all the challenges that that had in terms of -- you
20 know, you were definitely not at the top of the line of
21 countries getting vaccines, so you had to adjust to
22 whatever you found.

23 Certainly the resilience that Greg mentioned. In
24 many emerging countries, staying at home was not an
25 option. Most families if -- you know, if they don't go

1 out and, you know, do whatever they do, you know, on their
2 shop, or, you know, on a food cart in the street, they
3 won't have, you know, food on their table that night. So
4 definitely they had to find ways of adjusting to this in
5 the best fashion, same governments. A lot of countries,
6 central banks did not have the tools that developed
7 central banks have, like the Federal Reserve or, you know,
8 the balance sheet and being able to, you know, reduce
9 rates to zero.

10 So they -- again, resilience in, I guess, just in
11 ingenuity in finding ways to address this. It has not
12 gone without an impact. The emerging markets will have a
13 delayed recovery compared to most developed countries.

14 But definitely -- I guess, you know, if we want
15 to find the class half full in here, I guess resiliency
16 comes through, also understanding how much more
17 investment - and this is not just emerging markets - we'll
18 have to see in terms of the health care infrastructure,
19 but -- and finally, I do see as a positive outcome, if we
20 can find one, is actually there was some degree of global
21 coordination on this, in terms of least getting vaccines
22 out. And the rollout has not been, by any case, you know,
23 equal among countries, and far from that, but, you know,
24 we're getting there. And again -- and excuse me for
25 perhaps on the fixation on the climate aspect, I see it as

1 a very good rehearsal towards the challenge that we're
2 going to be facing in terms of climate change, if
3 anything, yeah.

4 COMMITTEE MEMBER YEE: Yeah. I appreciate that.
5 Great. Then, Mr. Chair, just one last set of questions,
6 if I could. Following on Ms. Taylor's comments, and that
7 is so how do you price the risk of having to liquidate
8 investments in the wake of, you know, just sudden acts of
9 aggression and -- or other kind of objectionable actions
10 by sovereign states?

11 MR. OLAFSON: I mean, I don't think you can
12 really price for something like that. You can start to
13 anticipate perhaps when, in this case, the buildup, when
14 we were -- there were ways to put the hedge into that, but
15 I don't think you can really price for it. So then it's
16 just portfolio construction. And it's just like, you
17 know, you have to be prudent or you choose not to have
18 exposure, if you think that that can happen.

19 But that certain things are really tail events,
20 and especially -- now, there's a whole new, you know, kind
21 of thought you have to have. I don't think there was this
22 anticipation that the dollar could be effectively, I don't
23 know -- that the reserves could be expropriated, or taken,
24 or frozen, or whatever the right --

25 COMMITTEE MEMBER YEE: Um-hmm.

1 MR. OLAFSON: -- you know, description of what's
2 happened is. And that was a watershed moment.

3 MR. DHAWAN: Yeah. And I would just -- I would
4 just add that, you know, we need to discern between risk
5 and uncertainty. And, you know, in markets we can put a
6 price on risk. We struggle to put a price on uncertainty.
7 And, you know, heading over the weekend when the sanctions
8 came out into March the 1st, March the 1st when MICEX was
9 closed and capital controls were put in place,
10 instantaneously you saw a 99 percent drop in value for
11 local currency bonds in dollar terms, 90 percent in hard
12 currency bonds and 85 percent in corporate bonds.

13 So there's just no way in which you can trade out
14 to that or do anything. It was an instantaneous drop in
15 price and then, you know, from -- in the subsequent weeks,
16 you know, we've seen a lot of deleveraging of assets at
17 these sorts of values as people are looking to remove them
18 from portfolios.

19 COMMITTEE MEMBER YEE: Yeah. Okay. I think
20 that's it. Thank you, Mr. Chair. Thank you very much.

21 CHAIRPERSON MILLER: Okay. Thank you.

22 Next, I have Director Middleton.

23 COMMITTEE MEMBER MIDDLETON: All right.

24 CHAIRPERSON MILLER: What did I do.

25 Let me try it again. Let's see. Maybe hit your

1 mic button again and I'll see if I can --

2 COMMITTEE MEMBER MIDDLETON: There we go. Thank
3 you.

4 CHAIRPERSON MILLER: Operator error here.

5 COMMITTEE MEMBER MIDDLETON: All right.

6 Gentleman, thank you. This was really
7 interesting and I made a tremendous number of notes. My
8 only complaint is I'm never going to be able to listen to
9 Hotel California quite again --

10 (Laughter.)

11 COMMITTEE MEMBER MIDDLETON: -- in exactly the
12 same way. I don't want to try to pick over all of the
13 questions that have already been asked. One of the things
14 that emerges from this conversation is that we make
15 investments in organizations and in countries expecting
16 that they have at least a reasonable level of shared
17 commitment to a ruled space system and order. And what we
18 find is frequently that's wishful thinking on our part.
19 And what -- I find myself looking at two different
20 countries that were mentioned today, Russia and Venezuela,
21 two very, very different countries, but in both instances
22 in very dramatic ways, the leadership of those countries
23 have acted very irrationally based on a commitment that
24 each one of them has to some kind of system of order very
25 different than what most of us.

1 For an entity like CalPERS, that commitment to
2 rules and to good governance is one of the motivations for
3 us to get into emerging markets. And what I am struggling
4 with is when do we make the decision that we need to step
5 way, even though we've been told you can't leave
6 sometimes? But at some point, we do need to make that
7 decision. And the one that's emerging for us is our
8 commitments in China, where it -- they have taken and
9 shown both actions that would justify that they are going
10 to act rationally and others that would cause you to
11 wonder how deep is that commitment.

12 MR. DHAWAN: Maybe I can offer a start just more
13 from a mathematical or empirical perspective. There's
14 been quite a lot academic research over time that shows to
15 your notion of a rules-based system. If you adopt the
16 same sorts of western rules or governance, focus on rules
17 of law, quality of the institution, property rights
18 adherence, over time -- there was a paper written called,
19 "The Australian Dream", which basically looked at
20 Australia's migration over the past 50 years and to
21 adopting these types of systems.

22 But over time, we can -- we can empirically show
23 that if you do that, your cost of borrowing does come down
24 and your ability to be able to attract foreign investment
25 does go up. So as an entity, you are better off adopting

1 that system that you very nicely articulated is the norm
2 of what public pension plans want to try and invest in.

3 And across emerging markets, and I'd love to get
4 Axel's thoughts as well, because, you know, he comes from
5 a country that, you know, after a benevolent dictatorship
6 adopted that same system and went through a period of
7 building up its pension system, went through a period of
8 de-dollarizing its economy, went through a period of
9 really having probably one of the most pragmatic and to
10 the book central banks into global economics, and really
11 benefited very well for the last 20 or 30 years in terms
12 of the rest of the middle class.

13 So I think -- I think there's a broad realization
14 amongst emerging market countries, both on the frontier
15 space, as well as the more developed, that if you do
16 travel over or through the system that the rewards are
17 there at the end. I don't think what we can legislate for
18 is those that want to derail that. And it again comes
19 again into the uncertainty element.

20 I would just raise to any investor that the
21 concentrations amongst countries that you had mentioned,
22 particularly China, need to be tapered, need to be
23 managed, being mindful of the fact that potentially that
24 there are conflicts down the line, as they maybe don't
25 choose to follow that same rules-based order of

1 governance.

2 COMMITTEE MEMBER MIDDLETON: All right.

3 MR. CHRISTENSEN: I think this is a key question.
4 And perhaps it might help in answering the fact to
5 understand that emerging markets, in terms of their
6 country composition has evolved over time. We look at
7 certainly the indices at the -- when, at least on the
8 equity side, MSCI started to kind of, you know, structure
9 a very smaller number of countries. It was primarily
10 concentrated in Latin America and in Europe. And Asia was
11 quite small back at the time.

12 So eventually capitals find a way of -- in the
13 case of, you know, having Asia increase in its allocation,
14 it had to do with the growth aspect. Most Asian economies
15 embraced, you know, a higher focus on technology. So
16 eventually, you know -- and probably the -- you have to
17 struggle with the pace of that adjustment, but definitely
18 markets find ways in terms of reassessing those risk --
19 political risk.

20 I have to say that sometimes it's not just on
21 authoritarian regimes. Sometimes countries choose
22 democratically to change the rules as well. And as an
23 investor you have to, you know, withstand that of -- and
24 I'm talking very closely here. My country has chosen to
25 renew its constitution. As an investor, you get nervous,

1 because that means reviewing all the rules again.

2 COMMITTEE MEMBER MIDDLETON: Right.

3 MR. CHRISTENSEN: But they've done it
4 democratically. That's what most of the people have
5 chosen. And as investors, it's our -- you know, we're --
6 it's not a right for us to invest. It's actually
7 something that we earn and we have to appreciate political
8 changes, especially if they come in democracies in -- you
9 know, in open decisions from the people.

10 So at the end of the day, political risk is part
11 of the landscape and you have to understand it. Markets
12 will evolve in terms of how they -- how they address the
13 risk and opportunities. It's not just again the
14 authoritarian governments that you want to be mindful of.
15 Also, very democratic governments sometimes decide on
16 terms of changing the rules, and that's okay.

17 COMMITTEE MEMBER MIDDLETON: Thank you. Let me
18 change the subject just a little bit. One of the comments
19 that was made had to do with just-in-time supply chains.
20 And we've had just over 40 years of just-in-time supply
21 chains clearly being the leading model throughout the
22 world.

23 And between COVID and the wars breaking out, we
24 are now seeing very dramatically the limitations to this
25 kind of approach. What should that mean to us in terms of

1 investment strategies moving forward?

2 MR. DHAWAN: Well, I think, you know, a natural
3 beneficiary would be Mexico, in the sense that it's within
4 America's sphere of influence, it has cheap production
5 from a labor perspective. You have the updated NAFTA
6 agreement which was signed in the last administration for
7 typical car production, goods cross the border 15 --
8 around 15 times back and forth between the U.S. Mexico.

9 So this fluidity is already there. And I think
10 what we will start to see in the U.S. would be trying to
11 make sure that we have much more security around essential
12 production items, essential goods. I don't think we need
13 to -- we're going to want to be in a situation again where
14 we just left -- were left with too much uncertainty around
15 the procurement of goods and services.

16 And I think if we're thinking that way, then the
17 European Union is also thinking that way, and China is
18 thinking that way, and then you start to regress a little
19 bit the global order that we've put in place in the last
20 40 years. And I think that that means more onshoring and
21 that means building, you know, more niche regional trade
22 agreements and more niche regional partnerships, so
23 winners on one side, where you strengthen the cords, and
24 losers on the other side where you unfortunately loosen
25 them.

1 COMMITTEE MEMBER MIDDLETON: All right.

2 MR. OLAFSON: Look, I think it's a real -- it's
3 real. This and energy transition are probably the two big
4 themes running through a lot of what, you know, portfolio
5 managers, I think investors, are looking at. And, you
6 know, back to what Pramol said earlier, this is all
7 inflationary. It's not just Mexico. I mean, you'll have
8 more production in this country. Like, I mean -- and I
9 think it may be the auto industry. It may be life
10 sciences. It may be semiconductors. Like, all -- I think
11 all elements of industry will revisit this, because it
12 was -- I think it just became too stretched. But there
13 will be a cost. I mean, it was a great -- it was a great
14 benefit to the consumer -- the American consumer of being
15 able to acquire all these goods from what were pretty
16 effective global supply chains, but I think that needs
17 to -- it probably swung too far --

18 COMMITTEE MEMBER MIDDLETON: Um-hmm.

19 MR. OLAFSON: -- and so it will come back and
20 there will be opportunities for you and investors like us
21 to participate in that.

22 COMMITTEE MEMBER MIDDLETON: All right. Mr.
23 Chairman, let me just finish with a comment and I know
24 it's one shared by everyone. What Russia is doing in the
25 Ukraine today is horrific and all of us want not just

1 simply to take responsible financial actions, but we also
2 want to find some way to punish the Russian regime and to
3 support the Ukrainian people. And what that's going to be
4 I think is a difficult choice, but it is one that we want
5 to make.

6 CHAIRPERSON MILLER: Thank you.

7 Next, I have Director Pacheco.

8 Oh, let's try it again. Just push your button,
9 then I'll turn you back on, I think.

10 There you go.

11 COMMITTEE MEMBER PACHECO: Is it on?

12 CHAIRPERSON MILLER: Yes, of course, sir.

13 COMMITTEE MEMBER PACHECO: Very good then. Thank
14 you. Thank you very much, gentlemen. I really did
15 appreciate this panel discussion on emerging market. And
16 what our -- my Board Member Mrs. Lisa Middleton mentioned
17 about globalization, I wanted to actually elaborate more
18 about that. I know that, you know, over several decades,
19 we've been moving towards globalization. For instance,
20 with NAFTA, for instance, we had that model that we had.
21 I believe it was under the Clinton Administration where
22 they had Canada, United States, and Mexico. And I
23 remember reading about it and study -- actually studying
24 about it where Canada was a -- had the competitive
25 advantage of the natural resources, the United States has

1 the higher education, and the capital -- the money
2 capitals, and then Mexico was considered the labor, their
3 competitive advantage.

4 And in this new order as has come out, do you see
5 us -- and I think that's what you're alluding to, you do
6 see us moving back where essential -- essential industries
7 will need to be internalized in our country and so forth.
8 But in terms of how is that going to -- in terms of how
9 that's going to affect the inflation supply and also just
10 the cost of doing things. I mean, like for instance, it's
11 now six or seven dollars now to fill a gas tank. Is it
12 going to get higher? I mean, those are the kinds of
13 questions that are -- you know, obviously there is a cost
14 of going back, but, you know, how are we going to address
15 that?

16 And also, not only that, if -- you know, by
17 moving that direction, policies have to move, right? So
18 the United States government has had this robust policies
19 of globalization for several decades. It will take time
20 to bring all that back, all that alignment back. And I
21 wanted your thoughts, all three of you, on what you all
22 thought about -- think about that.

23 MR. CHRISTENSEN: So let me give you a first
24 approach to this. So definitely, you've probably heard
25 that we're shifting from this just-in-time global

1 structure to one just-in-case, where we're going to get
2 much more levels of redundancy in the supply chain, so --
3 and this is something that was already happening when we
4 saw the -- you know, the trade war between the U.S. and
5 China. It was only amplified during the COVID as a lot of
6 supply chains were put to pressure. And kind of the
7 cherry on top, right, has been the recent conflict in
8 terms of -- you know, making that even more prevalent in
9 energy and other commodity prices.

10 So this poses a lot of challenges and certainly
11 one -- many come in the direction already mentioned of
12 nearshoring and onshoring, bringing closer, perhaps
13 running higher levels of inventory as like shock
14 absorbers, if you will, it -- but it also could have much
15 more structural type of decisions that -- you know, it's
16 quite wide the range of implications. Think about if oil
17 prices continue to be high --

18 COMMITTEE MEMBER PACHECO: Um-hmm.

19 MR. CHRISTENSEN: -- people will probably want to
20 live closer to where they work, or the pressure of remote
21 working will continue to be there for longer. In terms
22 of, you know, the type of real estate, for instance, that
23 has more development. If we have more inventory closer to
24 the final consumer, you will see, you know, storage type
25 of real estate probably be very interesting. So I'm just

1 kind of mentioning some of the longer term implications of
2 this.

3 Now, from a more kind of investment portfolio
4 construction -- and it's interesting, because at least in
5 my part of the world, inflation never went away. I mean,
6 if you talked to someone from Argentina, they're living
7 with 40 percent inflation this year. But here in the U.S.
8 and Europe, inflation was definitely not a concern. I
9 think -- you know, I might have come across several
10 academic papers calling for the death of inflation and
11 central banks to worry about something else. And suddenly
12 inflation is certainly back.

13 And that also makes us rethink what type of
14 decisions we have to bring into our portfolios that have a
15 better chance of mitigating inflation, you know, real
16 assets, infrastructure, certain sectors that have better
17 ability to address inflation. So it's -- it affects us in
18 our daily decisions that -- you know, that gas tank that
19 you mentioned that -- but it also is going to be affecting
20 us in terms of how we look at portfolios where definitely
21 for U.S.-based investors as yourselves protecting
22 inflation, which is very important, because at the end of
23 the day, you have to commit in terms of funding those
24 pensions for people that will have to be facing that
25 higher inflation, is going to come with a much, I guess,

1 greater focus than it has in the past.

2 MR. OLAFSON: Look, it's -- the bottom line is
3 it's never that easy, I guess, to invest, to run a plan
4 like you do. In one -- in one sense, you know, the kind
5 of monetary repression that you've been suffering, you
6 know, zero rates, and -- that hasn't been easy. But on
7 the other hand, your liabilities are probably going to --
8 well, they will in this environment -- also inflate.

9 I think it will -- it will be challenging. There
10 will be opportunities. I think the bigger thing is
11 inflation per se. I mean, some of it's -- some of it
12 would be fine. The fact that the factors of production,
13 workers, can, you know, have a little bit of pricing power
14 isn't per se a bad thing. Maybe a good thing.

15 It's really just about how these feeds through
16 into growth. I mean, that's always the issue. We started
17 here, you know, the end of last year, the beginning of
18 this year with high valuations. It felt like the Fed felt
19 a bit behind the curve. Now, we have this extra dose of I
20 think inflationary pressure. And so it's a complex
21 environment to navigate, but markets adjust. Prices
22 adjust pretty quickly.

23 And then, you know -- and while we're talking
24 about it, you know, maybe it starts to be a buying
25 opportunity. We've had a pretty good correction in some

1 of the broader markets, notably the public side. The
2 private side always moves a little slower, because you
3 don't see it every day, but I think there will be
4 opportunities in all of that. And again, it just puts a
5 premium on, you know, the manager selection, the strategy
6 that you put in place.

7 COMMITTEE MEMBER PACHECO: Thank you very much.

8 CHAIRPERSON MILLER: Thank you. I'm not seeing
9 anymore questions from the Board.

10 We could go on all day. I mean, there -- this is
11 such a fascinating topic and such a fantastic expertise
12 and sharing from our panel, but I think we'll wrap that
13 up. And I do think we have a public comment on this
14 subject as well before we move forward from this.

15 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

16 Yes, thank you, Mr. Miller. I'd just like to
17 thank the three panelists for their generosity today.
18 Just very good discussion and very timely, so thank you.

19 (Applause.)

20 CHAIRPERSON MILLER: Anything else, Dan, before
21 we call for our public commenter?

22 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: No.
23 I think we're ready for public comment. I would just echo
24 Arnie's just appreciation for our panelists and their
25 organizations for making them available. But with that, I

1 think we can move to public comment.

2 CHAIRPERSON MILLER: Yeah, I agree. Thank you so
3 much.

4 Okay. We have Mr. J.J. Jelincic for public
5 comment. Come on down, sir.

6 MR. JELINCIC: Dave, as I said in my comment, I
7 wanted to talk specifically about Russian divestment. And
8 I will take your guidance as to whether this is the best
9 point to do it.

10 CHAIRPERSON MILLER: Yeah, I think so.

11 MR. JELINCIC: Okay. J.J. Jelincic speaking for
12 myself. You've all had your mortgages sold by the
13 originator. When your original lender sold off that loan,
14 it did not put any economic pressure on you. If it
15 created any pressure at all, it was to remember the new
16 name to write on the check. That is the effect of
17 divestment. You are divested.

18 Politicians make political statements. The
19 Governor wants to make political statements, he should use
20 his own money. If the Legislature wants to use -- wants
21 to make political statements, they should use their own
22 money. If you want to make a political statement, use
23 your own money. In this room, at that dais, you are
24 fiduciaries. Your job is to pay beneficiary -- pay
25 benefits and not make political statements.

1 If you believe Russian assets are currently
2 overvalued, you should make an economic decision to sell.
3 The largest single Russian asset the fund owns is a mall
4 in Moscow. If you have decided that hurting the economy
5 of Russia helps you pay benefits, you should not sell it.
6 You should implode it, thus denying Russia the economic
7 benefits that that activity creates. You should also do
8 that, or the equivalent, with all of your other hidden
9 Russian assets.

10 Again, in this room, at that dais, it's your job
11 to grow assets and pay benefits, not make political
12 statements. Thank you.

13 CHAIRPERSON MILLER: Thank you.

14 Okay. I think that now we'll be adjourning into
15 closed session. And, let's see, it's 11:30, so I guess
16 we'll be returning at about two o'clock. Does that sound
17 about right?

18 It looks like --

19 COMMITTEE MEMBER TAYLOR: Well, we've got to take
20 lunch in between.

21 CHAIRPERSON MILLER: And we've got to take lunch
22 as well.

23 So do you have a recommendation?

24 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

25 Yeah. Is -- you're looking for a guess for when

1 we'll return in open?

2 CHAIRPERSON MILLER: Um-hmm.

3 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:
4 Yeah. It looks like we have about two and half hours in
5 closed, Mr. Chair. So, yes, I think throw in lunch. I
6 think 2 to 2:30 is probably a good guess.

7 CHAIRPERSON MILLER: Yeah. Why don't we say 2:30
8 then. Does that sound right?

9 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:
10 Should we set it for earlier and that way in
11 case -- because I think we can go over rather than --

12 CHAIRPERSON MILLER: Yeah, that way -- yeah.

13 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: So
14 maybe we should say we'll try to adjourn around 1, but
15 we'll see if we make it. One, 1:30.

16 (Laughter.)

17 CHAIRPERSON MILLER: I'm thinking more like two.

18 CHIEF EXECUTIVE OFFICER FROST: Yes, Mr. Miller,
19 2 o'clock.

20 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Two
21 o'clock, okay.

22 CHAIRPERSON MILLER: So let's stick with 2 and
23 that's -- we'll see how we do with that guesstimate.

24 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:
25 Sounds good.

1 CHAIRPERSON MILLER: Okay. Thank you. So we
2 will adjourn into closed session now.

3 COMMITTEE MEMBER TAYLOR: Can you recess for 10
4 minutes for a break too --

5 VICE CHAIRPERSON FECKNER: Yes, recess.

6 COMMITTEE MEMBER TAYLOR: -- because they may --

7 CHAIRPERSON MILLER: Oh, yeah. Yeah. Let's
8 recess for 10 minutes and then return for closed session.

9 Thank you all.

10 (Off record 11:27 a.m.)

11 (Thereupon the meeting recessed
12 into closed session.)

13 (Thereupon the meeting reconvened
14 open session.)

15 (On record: 2:15 p.m.)

16 CHAIRPERSON MILLER: Okay. Let's reconvene with
17 our open session of the Investment Committee and welcome
18 back, everyone.

19 We're on Item number 4, the Executive Report,
20 from our Interim Chief Investment Officer, Mr. Bienvenue.

21 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Yes.
22 Thank you, Mr. Chair and good afternoon, members of the
23 Investment Committee. I guess we were surprisingly
24 prescient with our -- with our timing estimate finishing
25 close session right at two o'clock.

1 Part of my opening comments here are going to be
2 to address some of the current market events and potential
3 impacts on the portfolio. But before we get to that, I'd
4 like to highlight a couple of key themes that you see on
5 the agenda before us today. Those two key themes are
6 first the importance of our perspective as a long horizon
7 investor, being primarily interested in outcomes over
8 decades and generations, as that's the horizon that aligns
9 with our liabilities; and secondly, the importance of a
10 healthy governance model and the stewardship of these
11 funds -- or in the stewardship of these funds, which we
12 together are responsible for managing.

13 These two taken jointly give us confidence in
14 both the ability and actually just the confidence itself
15 to stay the course through periods of short-term
16 volatility. And really you can see examples of both of
17 these on today's agenda. First, the ALM process for both
18 the PERF and the affiliates are before us today. And
19 these reflect the long horizon of both the PERF and many
20 of the affiliate trusts.

21 And in terms of governance, we have -- we have a
22 couple of items. First, an action item for the Committee
23 to select a Board investment consultant for a new
24 allocation to private debt. And then secondly, an
25 information item requesting Committee feedback on

1 potential changes to the total fund and the global fixed
2 income investment policies that execute on the long-term
3 strategic asset allocation.

4 So as the investment landscape continues to
5 evolve and change, be it due to geopolitical risks,
6 macroeconomic conditions or other factors, we can really
7 move forward leaning on our governance and staying focused
8 on the long term.

9 Now, we certainly do that through navigating
10 short-term events using our team and our systems and
11 processes to remain vigilant and aware of current
12 circumstances to understand implications of market
13 dynamics on the portfolio, to manage our leverage and our
14 liquidity across the total fund, and to stay laser focused
15 on our investment strategy and the execution of thereof,
16 all despite periods of short-term volatility.

17 So with that in mind, let me share some context
18 on some of the recent events and the impacts for the
19 portfolio. Since the end of the calendar year, we have
20 experienced heightened market volatility in both equity
21 and fixed income markets. This was first driven by
22 inflation numbers and then concerns over the upcoming
23 tightening of monetary conditions by global central banks.
24 Of course, more recently, the volatility has been driven
25 by the disturbing events in the Ukraine that we talked

1 about earlier today.

2 And these have led to market action that exhibits
3 traditional risk-off dynamics with volatility elevated,
4 U.S. treasuries rising when risks appear to be especially
5 acute, U.S. dollar appreciating, and then equity and
6 credit markets coming under pressure. And this has
7 resulted in our portfolio giving back some of the recent
8 gains.

9 Now that said, this backup is relatively small
10 when compared to the significant gains experienced over
11 the last few years and performance is still very strong
12 over long horizons. And it's also worth noting that
13 fortunately, or maybe I should say foresightedly, our
14 strategic asset allocation has been set with these kinds
15 of periods in mind. Together, and as we've discussed in
16 the past, we have intentionally built diversification and
17 defensiveness into the portfolio with a specific
18 allocation to U.S. treasuries, and defensive sleeve as
19 part of our equity exposure, and then our predominantly
20 core and mature income-producing real assets allocation.
21 And this positioning has and should continue to serve us
22 well, as we know that drawdowns and risk-off events are
23 inevitable in markets.

24 And this takes us back to the need to keep our
25 eyes on our long-horizon liabilities, to lean on our

1 governance, and to stay laser focused on managing the
2 portfolio and executing on our strategy through these
3 periods of market volatility.

4 And that concludes my opening comments, Mr.
5 Chair. And with that, I'll turn it back to you.

6 CHAIRPERSON MILLER: Great. Thank you.

7 And with that, we'll move to our action consent
8 items, 5a, approval of the --

9 COMMITTEE MEMBER TAYLOR: Move approval.

10 CHAIRPERSON MILLER: Okay. Moved by Ms. Taylor.

11 COMMITTEE MEMBER PACHECO: Second.

12 CHAIRPERSON MILLER: Second by Mr. Pacheco.

13 So I call for the question. And is electronic,
14 Ms. Hopper?

15 COMMITTEE SECRETARY HOPPER: No.

16 VICE CHAIRPERSON FECKNER: No.

17 CHAIRPERSON MILLER: No. Okay. So all in favor?

18 (Ayes.)

19 CHAIRPERSON MILLER: Any nays?

20 No abstentions.

21 The ayes have it, so the motion passes.

22 So on to 6a, information consent items. I
23 haven't had any requests to pull any of these items. I
24 don't see anybody with a last minute objection, so we will
25 move on to 7, our action agenda items. And back to you,

1 Mr. Bienvenue.

2 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: All
3 right. Thank you, Mr. Miller. And we have Matt Flynn who
4 leads our Investment Services Division joining us to walk
5 us through this item. This is the item on the selection
6 of a consultant -- Board investment consultant for private
7 debt -- the new allocation to private debt. So, Matt,
8 over to you.

9 INVESTMENT DIRECTOR FLYNN: Thank you, Dan. Good
10 afternoon. You pretty much stole my thunder.

11 (Laughter.)

12 INVESTMENT DIRECTOR FLYNN: Item 7a is an action
13 item asking the Committee to make a selection for an
14 investment consultant for the new private debt allocation.
15 The selection for the -- before you today is from one of
16 the two Board consultants that we have currently under
17 contract, that would be Wilshire or Meketa.

18 Current practice is for the Board to have
19 independent investment consulting services for each of our
20 private asset classes. With the new approved strategic
21 asset allocation, we now have an allocation to private
22 debt.

23 Given both firms are capable of performing the
24 private debt consulting work, the action requested today
25 is for you to select Meketa or Wilshire as your private

1 debt consultant. Following that selection, staff will
2 complete the necessary contractual actions to effect that
3 those services for you.

4 With that, I'm happy to answer any questions and
5 it's back to you, Mr. Chair.

6 CHAIRPERSON MILLER: Okay. I have a question
7 from Director Feckner.

8 VICE CHAIRPERSON FECKNER: Yes. Thank you, Mr.
9 Chair. Matt, can you explain -- I'm sure this isn't your
10 answer, but maybe you know the background information.
11 Why such a discrepancy in the bids? Is one going to do
12 more of something than the other is? I just kind of find
13 it hard to grapple with almost the double the price.

14 INVESTMENT DIRECTOR FLYNN: I can't speak to the
15 analysis that each firm put into their proposals. The
16 request was for the services that we are -- that are
17 attached to this item. So the services are nearly
18 identical to the services provided to the private equity
19 book of business from a similarity standpoint, clearly
20 smaller scale, but that's as much as I can speak to. I
21 know certainly Wilshire and Meketa are here. Perhaps,
22 they could provide some insight into their analysis.

23 VICE CHAIRPERSON FECKNER: Meketa, you want to
24 come up and tell us why such a big difference, please?

25 MS. FIELDS: Christy Fields, Meketa. We priced

1 these service -- we are the private markets consultants
2 for the other asset classes. And so we priced these kind
3 of in relationship to the expected size of the asset class
4 at full implementation similar to -- similar to the
5 services that we provide to real assets and private
6 equity. That's how we thought about it.

7 VICE CHAIRPERSON FECKNER: But it's going to be
8 the same scope of business, just the way you priced it is
9 a lot different than what Wilshire did. Okay.

10 MS. DEAN: So Rose Dean, Wilshire Advisors.

11 Our pricing was predicated on the fact that we
12 are performing some of the services that are listed in the
13 scope of services for this particular mandate at the
14 current time. Also, there is some benefit to scale in
15 terms of our responsibilities of overlooking the portfolio
16 as a whole already. So this would be just an additional
17 service, but the actual items of -- within the scope of
18 services will be the same and we'll be providing the same
19 type of services obviously requested by the Board whether
20 it's Meketa or us.

21 VICE CHAIRPERSON FECKNER: Okay. Thank you.

22 CHAIRPERSON MILLER: Okay. And I'd say feel free
23 to remain because I've got a few more Board members that
24 have questions, so perhaps you'll be able to illuminate
25 us.

1 Okay. Ms. Ortega.

2 COMMITTEE MEMBER ORTEGA: Thank you. I think my
3 question follows nicely on the remarks about is there any
4 concern about having Wilshire have that kind of be the
5 general consultant but then be consulting on this
6 individual item too?

7 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Not
8 really. I mean, we separated private assets and general
9 pension in the aftermath of the financial crisis, call it
10 12 or 14 years ago. And we had a completely different
11 governance model in place. We had completely different
12 series of checks and balances and the like. We think that
13 that is a dated model, and that between having the
14 consultants, and IRCs, and many of the different
15 governance structures that we've built over the past, you
16 know, 10, 12 years, we don't think that separation is
17 necessary. We think that either one is a reasonable
18 choice for the Board.

19 COMMITTEE MEMBER ORTEGA: Okay. Thank you.

20 CHAIRPERSON MILLER: Okay. Thank you, Director
21 Ortega.

22 Next, I have Controller Yee.

23 COMMITTEE MEMBER YEE: Thank you, Mr. Chairman.
24 Following on Ms. Ortega's question, because I thought that
25 was one of the stipulations with the Wilshire general

1 consultant contracts, so -- or was -- yes or no?

2 INVESTMENT DIRECTOR FLYNN: Pardon me. What
3 you're recalling is during the solicitation phase --

4 COMMITTEE MEMBER YEE: Uh-huh

5 INVESTMENT DIRECTOR FLYNN: -- of the
6 procurement, the RFP had an artificial barrier put into
7 the criterion, which said the general pension consultant
8 was not going to do private asset consulting work. That
9 was a component of the solicitation, not a component
10 that's currently within the Wilshire contract.

11 COMMITTEE MEMBER YEE: I see. Okay. Got it.
12 Got it. And I understand that there's no RFP process
13 that's planned now, because of the length of time that
14 that would take. So when is another RFP process
15 contemplated today?

16 INVESTMENT DIRECTOR FLYNN: We have the
17 opportunity to come back around in 2023, end of the year,
18 if I'm not mistaken, for the next solicitation. The
19 consulting contracts again, based on a decision made with
20 different leadership group candidly --

21 COMMITTEE MEMBER YEE: Um-hmm.

22 INVESTMENT DIRECTOR FLYNN: -- in the Investment
23 Office was a three, plus one, plus one contract structure.

24 COMMITTEE MEMBER YEE: Yes.

25 INVESTMENT DIRECTOR FLYNN: The initial three

1 years is nearly due. So if we chose not to authorize the
2 additional plus one, we would start the solicitation -- we
3 would start planning for the solicitation ASAP.

4 COMMITTEE MEMBER YEE: Okay. Mr. Chairman, I'd
5 like to, if we -- well, when we take action to request
6 that we do have staff undertake an RFP process for the
7 next year. So looking at exercising the plus one, but I
8 really would like to see an RFP process going forward,
9 when we have a little bit more time to get that process
10 going.

11 CHAIRPERSON MILLER: Yeah. Can we have that be a
12 direction from the Committee.

13 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:
14 We'll take that as direction that after we settle
15 this --

16 CHAIRPERSON MILLER: Right.

17 COMMITTEE MEMBER YEE: Yeah.

18 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:
19 -- we'll kick off the RFP process as of the
20 three.

21 CHAIRPERSON MILLER: Yeah. Okay.
22 Director Rubalcava.

23 COMMITTEE MEMBER RUBALCAVA: Thank you.

24 Yes, I do appreciate Controller Yee's comment,
25 because there's an abbreviated procurement process, the

1 Board letter says both are clearly qualified, but it would
2 have been good to seen like --

3 COMMITTEE MEMBER YEE: Yeah.

4 COMMITTEE MEMBER RUBALCAVA: -- some sort of
5 presentation or something to summarize what they bring to
6 the table to to speak. So I know that would be nice to do
7 a --

8 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: That
9 makes perfect per --

10 COMMITTEE MEMBER RUBALCAVA: -- procurement next
11 time. Thank you.

12 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

13 -- perfect sense from our perspective that we --
14 you know, this was a function of adding the private debt
15 allocation, that we need to get someone in place. And as
16 Ms. Dean just mentioned, they are currently doing this as
17 part of the opportunistic strategies, but it does make
18 sense to do a full RFP as soon as -- as soon as practical.

19 CHAIRPERSON MILLER: Yeah. Director Feckner.

20 VICE CHAIRPERSON FECKNER: I'm assuming we need a
21 motion on this?

22 CHAIRPERSON MILLER: Yes, I would entertain a
23 motion.

24 VICE CHAIRPERSON FECKNER: Then I would move that
25 we give the contract to Wilshire and then pick up Ms.

1 Yee's comments at the end of that period of time, so that
2 we can have a procurement and see where we end up and
3 really put things on paper and perspective.

4 COMMITTEE MEMBER TAYLOR: I second the motion.

5 CHAIRPERSON MILLER: Seconded by Ms. Taylor.

6 Any discussion?

7 Okay. I'll call for the question.

8 All in favor?

9 (Ayes.)

10 CHAIRPERSON MILLER: Nays?

11 No nays. No abstentions. The motion carries.

12 The ayes have it. So thank you all for coming up and we
13 will move on to our next action consent item, 5b[SIC],
14 Review of the Investment Committee Delegation.

15 Mr. Bienvenue.

16 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Mr.
17 Chair, I think we're on to Item 7b, which is the --

18 CHAIRPERSON MILLER: Sorry.

19 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

20 -- which is the -- which is the affiliate funds,
21 health, defined benefit, and prefunding trusts.

22 CHAIRPERSON MILLER: Right you are.

23 (Thereupon a slide presentation.)

24 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: All
25 right. Excellent. So we have Christine Reese joining us.

1 Recall that the -- you know, we went through the
2 allocation, the ALM for the PERF. That landed in
3 November. Now, we're back with an action item in March
4 for the -- most of the affiliates. Although the glide
5 path funds, the target date funds, those will be back in
6 June. So with that, I will turn it over to Christine
7 Reese to take us through the item.

8 INVESTMENT DIRECTOR REESE: Thank you. Good
9 afternoon. Christine Reese, CalPERS team member.

10 I'm here today to present the asset liability
11 management review for certain Affiliate Funds. This ALM
12 review utilizes the same methods as were used for the ALM
13 for the Public Employees' Retirement Fund, which was
14 presented to the Investment Committee in November.

15 Before I begin, I would like to acknowledge and
16 thank the team members in the Investment Office, actuarial
17 office, and Financial Office for their collaborative
18 partnership and contributions to this review. For this
19 review, I'll walk through the purpose of each of the
20 Affiliate Funds to provide context for the candidate and
21 recommend portfolios. I'll then discuss our findings on
22 adding private equity as an asset class and the fixed
23 income benchmark modification.

24 Then we'll turn our attention to the portfolios,
25 starting with the sample 60/40, followed by the single

1 allocation funds, and then the multi-asset class funds.
2 And I'll close out the presentation with a comparison of
3 the recommended portfolios and our recommendations and
4 next steps.

5 --o0o--

6 INVESTMENT DIRECTOR REESE: So on slide 3, you'll
7 find a table with the listing of Affiliate Funds that
8 we're covering in today's review. I'm just going to walk
9 through them one by one, give a short description, and
10 discuss kind of their investment strategy.

11 So the Health Care Fund is a reserve fund for our
12 self-funded health care plans. There are no defined cash
13 flows, but withdrawals can occur at any time, depending on
14 the need of the Health Care Program. As a reserve, this
15 fund is invested very conservatively in bonds.

16 So we have three defined benefit plans. The
17 Legislators' Fund is closed. It's cash flow negative and
18 has just a few active participants. This fund is invested
19 across five asset classes with a moderately conservative
20 investment strategy.

21 The Judges' Fund, like the health -- like the
22 Legislators' Fund, sorry, is also closed, but this is a
23 pay-as-you-go program. The part that we invest is a
24 reserve to ensure that we can pay two to three months of
25 benefit payments should there be a State budget delay. So

1 this fund is invested in very short-term cash equivalent
2 securities.

3 The Judges' Fund is our third defined benefit
4 program. And this was opened when the Judges' Fund was
5 closed. It's a relatively young program and is cash flow
6 positive. This fund is also invested in five asset
7 classes with a moderately aggressive investment strategy.

8 So that brings us to the prefunding programs that
9 we're covering today. The first is the California
10 Employers' Retiree Benefit Trust Fund, which I am going to
11 call the CERBT. This is a program for employers to
12 voluntarily contribute and pre-fund their, what's called,
13 other post-employment benefit liabilities, also known as
14 OPEB. These are primarily health premium related
15 liabilities for retirees.

16 So this fund we offer employers three strategies
17 with distinct asset allocations with a moderately
18 aggressive, moderate, and moderately conservative
19 investment strategies.

20 And then lastly, the California Employers'
21 Pension Prefunding Trust, the CEPPT. This is also a
22 program for employers to prefund liabilities, but in this
23 case it's their future pension payments. This fund offers
24 two strategies, one moderate and one conservative across
25 four asset classes versus the five for the other funds,

1 particular program. So for these reasons, we are not
2 recommending adding private equity as an asset class.

3 --o0o--

4 INVESTMENT DIRECTOR REESE: Moving into the fixed
5 income benchmark, we have modified the weights to increase
6 the projected risk and return profile. This modification
7 is in alignment with a similar modification made for the
8 PERF. And we've tested it for the Affiliate Funds to
9 ensure that it is a reasonable change. And those tests
10 were successful and it does improve the risk return
11 equation for the Affiliate Funds, and we are recommending
12 to adopt the new weights.

13 --o0o--

14 INVESTMENT DIRECTOR REESE: So let's move into
15 the portfolios. I'll start with the 60/40 portfolio as a
16 frame of reference. This portfolio is 60 percent global
17 equities and 40 percent U.S. Intermediate bonds. In the
18 chart on the right, we can see that from 2019 until now
19 that the projected returns, which are the orange line, are
20 down, and projected risk, the gray line is up.

21 In looking at the table, more specifically, we
22 see that the 20-year projected return decreases almost a
23 half a percent from 5.8 to 5.4 percent and volatility
24 nearly increases three and a quarter percent from 10.1 to
25 10.8.

1 I'd like to note that drawdown is a new risk
2 measure for this ALM review. We included it in the PERF
3 review in November. And just as a -- to go over it in
4 summary again, this is the average of the worst 10 percent
5 of losses during any three-year period across 5,000
6 simulations.

7 --o0o--

8 INVESTMENT DIRECTOR REESE: So in this page, we
9 have the single allocation funds, the Health Care Funds,
10 and the Judges' Fund, which are both reserves. And our
11 recommendation is to maintain their current investment
12 strategies, so the Health Care Fund would remain in U.S.
13 bonds and the Judges' Fund would remain in cash
14 equivalents.

15 --o0o--

16 INVESTMENT DIRECTOR REESE: Moving into the
17 multi-asset class portfolios, these portfolios have been
18 constructed from the asset classes that are currently
19 held. For each of these portfolios, we show prior ALM
20 projected risk and return and the asset allocation and
21 statistics for the current portfolio and the two candidate
22 portfolios. Although the change in allocation from the
23 current portfolio to the candidates differs by fund, in
24 general what we see is that the candidate portfolio have a
25 higher allocation to real estate investment trusts known

1 as REITs and a lower allocation to either global equity or
2 fixed income just kind of depending on the individual
3 trust.

4 In each case, as we look at these portfolios, our
5 recommendation will be Candidate A. And we also provide a
6 higher projected risk and return portfolio as Candidate B.
7 In building the candidate portfolios, we focus on
8 balancing risk and return to provide a well diversified
9 portfolio that matches each fund's intended investment
10 strategy.

11 So looking more closely at Legislators', this is
12 a closed, cash flow negative fund. Candidate A, our
13 recommendation, aligns with lowering the discount rate to
14 4.5 compared to the current discount rate of five percent.
15 With a funded ratio well above a hundred percent and a
16 very small payroll, taking on any additional risk is not
17 seen as a benefit, given that the fund is very reliant on
18 investment earnings. Candidate A results in an estimated
19 funding ratio of almost 130 percent for June 30, 2021, and
20 an employer rate of approximately 32 percent, which is
21 higher than the current rate but does not represent a
22 large outlay given the small payroll.

23 --o0o--

24 INVESTMENT DIRECTOR REESE: For Judges' II, the
25 young cash flow positive fund, Candidate A also aligns

1 with a lower discount rat of six percent compared to the
2 current discount rate six and a half percent. With the
3 funded ratio also well above a hundred percent, Candidate
4 B with an additional 2.2 percent in projected return and
5 approximately three percent added drawdown and one percent
6 added volatility, increases risk without much return
7 benefit.

8 Candidate A results in an estimated funded ratio
9 for June 30, 2021 of almost 123 percent and an employer
10 rate of approximately 23 percent, which is slightly lower
11 than the current rate of 24 percent. This also maintains
12 the PEPRA rate at 16 percent.

13 --o0o--

14 INVESTMENT DIRECTOR REESE: So for CERBT and
15 CEPPT, I am not going to spend time on each slide. I'll
16 just sit here for a moment on CERBT Strategy 1. So this
17 is the voluntary OPEB prefunding program. So for each of
18 these portfolios, the projected returns for Candidate A
19 are six percent, five and a half percent, and five
20 percent, all with somewhat higher risk profiles than the
21 current portfolios.

22 The Candidate B portfolios follow the same
23 pattern we see with Legislators' and Judges', wherein the
24 increased to project risk is proportionally higher than
25 the increase to projected returns.

1 For these programs, the employers contract with
2 their own actuaries to determine their OPEB liabilities
3 and funded status, so we do not have a table or statistics
4 similar to what we showed for Legislators' and Judges'.

5 --o0o--

6 INVESTMENT DIRECTOR REESE: For CEPPT, the
7 voluntary pension prefunding program, Strategies 1 and 2,
8 we see all of the same patterns. Although for this
9 particular trust, the time horizon is 10 years instead of
10 20. For the CEPPT, we use intermediate bonds versus long
11 liability bonds and we do not have commodities as an asset
12 class due to the higher volatility and longer recovery
13 cycle for this asset class.

14 For Strategy 1, Candidate A has a projected
15 return of four and a half percent and Strategy 2 projected
16 return of three and a half percent. Again, Candidate B
17 risk rises disproportionately to the increase in projected
18 return.

19 --o0o--

20 INVESTMENT DIRECTOR REESE: So we've reviewed
21 nine portfolios in not a lot of time, so for ease of
22 comparison, we've build this chart, which places all of
23 the recommended portfolios side by side in order of
24 drawdown risk, lowest on the left, highest on the right.
25 And that's represented by the dashed line.

1 So what we see are that the results match our
2 expectations, and that the portfolio profiles align with
3 our intended investment strategy for each fund
4 conservative on the left to more aggressive portfolios on
5 the right. And then just note that we carved CEPPT out
6 individually, because comparing the two time horizons on
7 one scale would be apples and oranges, so we compare CEPPT
8 just to itself.

9 --o0o--

10 INVESTMENT DIRECTOR REESE: So wrapping up with
11 our recommendation and next steps. We recommend to adopt
12 the new weights for the fixed income long liability
13 benchmark and to adopt the recommended portfolios for each
14 of the affiliate funds as the policy portfolio for each of
15 those funds. And if the recommendations are adopted, we
16 will communicate with our stakeholders. The experience
17 study and discount rate will be brought forward in April
18 for Legislators', Judges; and Judges' II in the Finance
19 and Admin Committee. And in June, we will bring the
20 implementation plan for these trusts to investment
21 committee as well as the asset allocation review for our
22 final trusts, which are the Supplemental Income Plans, the
23 457 and the Supplemental Contribution Program.

24 That concludes my remarks and I'm happy to take
25 any questions.

1 CHAIRPERSON MILLER: All right. Thanks for your
2 remarks and all the hard work of yourselves and the whole
3 team. I know this is -- clearly represents a lot of
4 information and you've presented it very succinctly. So I
5 don't have any questions from any of the -- oh, I do.

6 There we go. Director Pacheco.

7 COMMITTEE MEMBER PACHECO: Yes. Thank you. So
8 my question is I want to go back to page 8 of 32, the
9 sample 60/40 portfolio. So I just want to understand, can
10 you just give me that foundational understanding in this
11 particular chart? And if you can just elaborate one more
12 time on it, just in terms of the returns and the
13 volatility, I saw that, and I just wanted to get an
14 understanding of that more clearly and how that relates to
15 the Candidate A's.

16 INVESTMENT DIRECTOR REESE: Yep. So the 60/40
17 portfolio, it's not directly relational, but what it is is
18 it's a sample portfolio that is commonly thought of in the
19 industry and it's just a starting place basically. And
20 what makes it nice is that it's just two asset classes,
21 equities and fixed income, which are our primary asset
22 classes, so it kind of simplifies the equation and it
23 makes very clear that you can see that the returns are
24 going down, risk is going up, and just this very basic two
25 asset class portfolio.

1 So that's the reason for including it here,
2 partially to just kind of look at a sample portfolio to
3 get kind of comfortable with the -- what we've been
4 talking about for, you know, this entire ALM, including
5 the public employee retirement fund is that return --
6 projected returns are down and risk is up --

7 COMMITTEE MEMBER PACHECO: Right.

8 INVESTMENT DIRECTOR REESE: -- as well as to kind
9 of walk through -- I think walking through the example,
10 the intent was also to kind of get a feel for the
11 following pages in terms of how it would be structured.

12 COMMITTEE MEMBER PACHECO: Okay. Very good then.
13 Thank you very for that comment.

14 INVESTMENT DIRECTOR REESE: You're welcome.

15 CHAIRPERSON MILLER: Okay. Thank you, Director
16 Pacheco. Next, we have Controller Yee.

17 COMMITTEE MEMBER YEE: Great. Thank you, Mr.
18 Chairman. Really appreciate all the work on this and
19 obviously, really staying on top of the market volatility.
20 And I think this makes sense in terms of just looking for
21 meaningful risk reduction strategies for all these funds.

22 My question has to do with the Judges' Retirement
23 II Fund. And I know you spoke about the fees being
24 prohibitive relative to looking at kind of the fund of
25 funds strategy, but is the prohibition of, I guess

1 investing private -- that fund in private equity through
2 the PERF is that a prohibition under law or I guess
3 what -- is there -- are there any other kind of hurdles
4 besides just the cost.

5 INVESTMENT DIRECTOR REESE: I'm going to let Dan
6 speak to that.

7 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

8 Yeah. It's something that we've looked at over
9 the years. There isn't really a clean way right now for
10 to --

11 COMMITTEE MEMBER YEE: Yeah.

12 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

13 -- you know, kind of sort of unitize the private
14 assets, specifically private equity, and they have pro
15 rata ownership. It is something that you're seeing the
16 industry make progress on --

17 COMMITTEE MEMBER YEE: Yeah.

18 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

19 -- as you're looking at, you know, retail
20 investors and defined contribution plans looking to invest
21 in private assets, but it's not something that's made a
22 lot of traction. It's not something that there's a lot of
23 sort of well thought out structures for.

24 COMMITTEE MEMBER YEE: Yeah.

25 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: So

1 as of right now, it's not really -- like I said, it's
2 something we've looked at, but we don't have a good clean
3 answer to that.

4 COMMITTEE MEMBER YEE: So it's really more of an
5 economic feasibility problem rather than an outright
6 prohibition of being able to go through the PERF?

7 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:
8 Economic and then structural challenges --

9 COMMITTEE MEMBER YEE: Yeah. Yeah.

10 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:
11 -- with legal implications and the like.

12 COMMITTEE MEMBER YEE: Yeah. Got it. Okay.
13 That makes sense. Hopefully someday we'll get there. On
14 your last slide, 18, thank you for including the
15 communication of the changes to stakeholders. The word
16 "potential implications" just kind of caught my eye and
17 just want to know if there were other implications that we
18 didn't hear about today that you're going to be
19 communicating with stakeholders.

20 INVESTMENT DIRECTOR REESE: No, I think the
21 potential implications particularly have to do with the
22 defined benefit programs in terms of the employ --
23 expected employee rates and the employer rates as well,
24 so -- yeah.

25 COMMITTEE MEMBER YEE: Yeah, that makes sense.

1 Good. Thank you.

2 INVESTMENT DIRECTOR REESE: You're welcome.

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

4 CHAIRPERSON MILLER: Okay. Thank you, Controller
5 Yee. I don't have any other requests to speak. And so,
6 at this point, is there a motion?

7 COMMITTEE MEMBER TAYLOR: I'll make the motion.

8 CHAIRPERSON MILLER: Okay. Director Taylor makes
9 the --

10 COMMITTEE MEMBER YEE: Second.

11 CHAIRPERSON MILLER: And seconded by Controller
12 Yee.

13 Discussion?

14 I'll call for the question. All in favor?

15 (Ayes.)

16 CHAIRPERSON MILLER: Any opposed?

17 It's unanimous, ayes. The motion carries.

18 And we'll move on to our information agenda
19 items. Thank you very much. And thank you to the whole
20 team.

21 So information Item 8a, Revisions to the Total
22 Fund and Global Fixed Income Policies, the first reading.

23 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Yes.
24 Thank you, Mr. Chair. And for this item, we have Amy
25 Deming, who you may recall we were able to, I think,

1 introduce virtually but not in person. But Amy is our --
2 actually not that new. I think she joined in August as it
3 turns out, but I guess it's the first time in front of
4 this committee in person. Amy Deming is our Investment
5 Director and Program Head of our Investment Controls and
6 Operational Risk Team.

7 (Thereupon a slide presentation.)

8 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: So
9 as mentioned, this is a first red. The idea is to get the
10 Committee's feedback on policy changes needed to implement
11 the strategic asset allocation. So with that I'll turn it
12 over to Amy to take us through the item

13 INVESTMENT DIRECTOR DEMING: Thanks, Dan. So as
14 you will probably recall, the Board approved the strategic
15 asset allocation in November. And we are proposing the
16 policy changes that we think that we need to accomplish
17 this. But as Dan mentioned, we really -- we really want
18 to hear your feedback today.

19 As a reminder, the new strategic asset allocation
20 has several new features, the addition of private debt as
21 a new asset class, increased allocations to private equity
22 and real assets, the introduction of strategic leverage,
23 and last but not least, the adjustments to public market
24 exposures.

25 With this agenda item, today you will have

1 received a summary of inventory -- and inventory of policy
2 changes, which is just a summary. You will also have
3 received the red-line and clean versions of the policy
4 changes. And with that, let's start with an overview.

5 --o0o--

6 INVESTMENT DIRECTOR DEMING: So we thought it
7 would be helpful today to take a step back and think about
8 the total framework and taking a look at the framework
9 overall of all of the policies. So we have two areas of
10 policy. We have the Total Fund Investment Policy and we
11 have asset class investment policies. On the top, you'll
12 see all of the components and objective of the total fund
13 policy with the inclusion of private debt, which is a new
14 asset class.

15 Note that we also have separate and distinct
16 documents for the rest of the asset class policies.
17 Wilshire has recommended that we sort of close this gap.
18 And that -- and when I say that I mean incorporate the
19 asset class investment policies into the Total Fund
20 Policy.

21 Staff actually agrees with this proposal, because
22 it would improve the consistency and readability of these
23 documents. That being said, today we're going to discuss
24 the policies that we are proposing to make, the policy
25 changes that is. All of the policy areas are in -- that

1 are in bold on this slide are where we are making --
2 currently making recommendations. That being said,
3 private equity and real assets do have substantial
4 increases in their asset allocation, so we are also
5 reviewing that policy as we speak. We would like to wait
6 until our new CIO arrives, so that we could review it with
7 her. And the idea would be to bring it back to the
8 Committee for a first read in June.

9 --o0o--

10 INVESTMENT DIRECTOR DEMING: So first off, the
11 Total Fund Policy changes. There are two key areas in
12 which we would like to propose changes. First, asset
13 allocation. So you might have noticed we've updated all
14 of the target weights and ranges for the new allocations
15 to drive private debt, strategic leverage, the fixed
16 income segments, which includes the new emerging markets
17 sovereign, as well as update the Board-approved benchmarks
18 for each new segment.

19 Next is investment leverage. At the request of
20 the Board, active leverage was reduced from 20 to 15
21 percent, such that with the introduction of strategic
22 leverage, the effective limit remains at 20 percent.

23 We've also looked to simplify, you know, the
24 language around strategic and asset -- strategic and
25 active leverage. This will ensure that, you know, our

1 the last couple of years. And the policy changes are very
2 much emanating from the opportunistic strategy in the
3 Total Fund Policy.

4 --o0o--

5 INVESTMENT DIRECTOR DEMING: And so lastly, you
6 know, we're here to share the policy changes that we think
7 we need to the carry out the Board's decision. We real --
8 would really like to hear your thoughts on these changes.
9 The plan would be to incorporate any of your feedback and
10 then bring it back in June for a second read and your
11 approval, and that concludes my remarks.

12 CHAIRPERSON MILLER: Okay. Thank you for the
13 presentation. I'm not seeing any questions, but I'll give
14 people a second if they want to hit their button.

15 Okay. Oh, Controller Yee.

16 COMMITTEE MEMBER YEE: Just a note of general
17 feedback. Thank you for incorporating the suggestions
18 from Wilshire. I think it will make the policies
19 definitely much more robust, but overall just carry on.

20 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: And,
21 Ms. Yee, when you're referring to the suggestion from
22 Wilshire, you're talking about consolidating all of the
23 asset classes.

24 COMMITTEE MEMBER YEE: The consol -- right,
25 right. So to the Total Fund Policy, and then --

1 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: We
2 can take that as direction to --

3 COMMITTEE MEMBER YEE: Oh, okay.

4 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

5 -- consolidate into a --

6 COMMITTEE MEMBER YEE: Okay. And then just with
7 the -- with -- as the private debt asset class evolves to
8 be sure that we're establishing specific targets as we do
9 for each of the strategies. Yeah. I -- and that will be
10 something that we already have in place for the Private
11 Equity Policy, so just some consistency there.

12 CHAIRPERSON MILLER: Yeah. And everything seems
13 comprehensive and consistent with what we've been talking
14 about, and we certainly want to make it so that our
15 policies support the implementation that we're
16 anticipating, and allow you to execute, you know,
17 effectively and efficiently as always.

18 And when those are combined, if there's any place
19 that it might be not apparent to us what got put where, if
20 there's anything, you know, presenting in a way that it's
21 clear to us what the policy changes are versus what was
22 just consolidation would be helpful for me, because I, you
23 know, may be easily confused by that.

24 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: We
25 tried to have an inventory this time of the actual

1 changes, and next time you'll see a lot of, you know,
2 strike-through and the like, because it will be repealing
3 all of these individual asset classes and putting
4 everything in total fund. But, yes, the idea will be to
5 basically port all of the -- substantially all of the
6 language over except with minimal changes and we'll try to
7 make that as clear as possible to your -- to your point.

8 CHAIRPERSON MILLER: Great. Thank you very much
9 and thanks for all the work all the team members that
10 contributed.

11 COMMITTEE MEMBER YEE: Mr. Chairman, can -- I
12 just wanted to comment on the second suggestion by
13 Wilshire, in terms of the targets for each of the private
14 debt asset -- I mean, I'm sure that will be a
15 work-in-progress for some of the areas. And so -- but I
16 do think just to arrive at consistency with what we do for
17 in the Private Equity Policy, okay?

18 CHAIRPERSON MILLER: Okay. I think that does it.
19 Thanks for that.

20 Okay. So summary of committee direction and then
21 we have some public commenters as well after that.

22 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

23 Yeah. So I think Arnie, tracked Chair direction
24 for us, so I'll ask Arnie to go through the two.

25 INTERIM DEPUTY CHIEF INVESTMENT OFFICER PHILLIPS:

1 Yes, I have two today. The first one referring
2 to the consultant contracts after we consolidate or move
3 the private debt into the Wilshire, we will kick off the
4 RFP process to look at it holistically, and then the
5 second one that just came up would be to consolidate all
6 the asset classes policies into one Total Fund Policy to
7 make it read easier. And that's what I had on our side.

8 COMMITTEE MEMBER TAYLOR: And the target --
9 establishing specific targets I think was in the Wilshire
10 thing from the private debt.

11 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:

12 Yeah, similar to private equity.

13 COMMITTEE MEMBER TAYLOR: Right.

14 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE: Yes.
15 Yep, we'll take that.

16 CHAIRPERSON MILLER: Okay. I think that will do.
17 And now on to our public commenters.

18 We have, it looks like, five on my list. So
19 first I'd like to welcome down Sheila Thorne. Is Sheila
20 here. Yep. Come on down. And we will have a clock
21 ready, and we'll -- what, there's a three minute -- three
22 minute clock. And whenever you're ready, we'll have the
23 mic on so you can begin.

24 MS. THORNE: Start?

25 CHAIRPERSON MILLER: You have the floor.

1 MS. THORNE: Hi. I'm Sheila Thorne from Fossil
2 Free California and I'm a CalPERS beneficiary.

3 Over the past year, I've been following an
4 undergraduate economics research group from UC Berkeley
5 led by Professor Clair Brown. One of the focuses of the
6 research group was potential stranded fossil fuel assets
7 in CalPERS investment portfolio. And we were therefore
8 particularly excited to see stranded fossil fuel assets
9 mentioned in CalPERS sustainability report prepared for
10 the January 18th Board education day.

11 In this report, CalPERS reiterated their
12 commitment to the Net Zero Asset Owner Alliance, which
13 pledges to tailor investments to meet a 1.5 degree Celsius
14 global warming target. However, CalPERS did not seem to
15 acknowledge the difference between the financial risk from
16 the transition risk associated with stranded fossil fuel
17 reserves and the physical risk from climate change events
18 that will destroy physical capital and real estate.

19 Meeting a 1.5 degree target means that 90 percent of coal,
20 60 percent of gas, and 60 percent of proven oil reserves
21 owned by fossil fuel corporations must remain unextracted.

22 CalPERS is invested in 125 of the 200 fossil fuel
23 corporations with the largest proven fossil fuel reserves,
24 which means that CalPERS has partial ownership of these
25 reserves. Based on CalPERS percent ownership of these

1 companies, students Sindre Carlsen and Jonathan Lee
2 calculated the financial value of CalPERS share of these
3 fossil fuel reserves.

4 Based on CalPERS June 2020 investment portfolio,
5 CalPERS ownership of coal, oil, and gas assets that must
6 be stranded equates to a total value of almost \$45
7 billion, and the market value of stranded reserves is
8 predicted to increase in the future. Financial losses
9 from stranded fossil fuel reserves could very likely
10 translate into declining stock prices for major fossil
11 fuel corporations resulting in major financial losses for
12 CalPERS.

13 CalPERS continuing investments in fossil fuel
14 producers contradicts their commitment to a 1.5 degree
15 warming target. If CalPERS truly believed in the 1.5
16 degree Celsius mandate, they would divert their
17 investments away from fossil fuel producers, because these
18 companies rely on exceeding this warming target to profit
19 off of their unextracted reserves.

20 In light of these findings, we ask for CalPERS to
21 have a more honest goal-setting process when it comes to
22 climate change where warming targets aren't just numbers
23 put into sustainability reports, but are actually
24 reflected in the investments that the fund makes.

25 Thank you.

1 CHAIRPERSON MILLER: Thank you.

2 And our next public commenter is Sandy Emerson.
3 Hopefully, I didn't mangle that pronunciation, and
4 welcome. And you also have three minutes and the clock
5 will start when you begin speaking.

6 MS. EMERSON: Hi. I'm Sandy Emerson. I've been
7 a long-time volunteer with Fossil Free California.

8 The sudden loss of value of investments in Russia
9 shows how quickly assets can become stranded. Outrage
10 over Russia's unprovoked attacks on Ukraine caused
11 canceled projects, loss of business, frozen assets, and
12 even a change in underlying indexes so that passive
13 investments have already divested from Russia. The fact
14 that the Russian economy depends so heavily on fossil
15 fuels has thrown their economy into chaos with astonishing
16 swiftness.

17 The economic fallout of the war in Ukraine
18 heightens the urgency of winding down investments in
19 fossil fuels in an orderly fashion. The climate crisis
20 will cause standing of fossil fuels and pension funds
21 should not be the holders of last resort for toxic fossil
22 fuel investments.

23 As Governor Gavin Newsom said in his State of
24 State address, we must end our dependence on petrostates,
25 including the planet-sized sphere of influence of the oil

1 majors who seek to perpetuate their destructive business
2 as long as possible.

3 Shareholder engagement is not likely to be
4 effective against an industry that seeks to grow endlessly
5 and relentlessly lease and is as deadly as any dictator.
6 Asking fossil fuel companies to stop producing fossil
7 fuels is not going to get us where we need to be.

8 Both CalPERS and CalSTRS have pledged to achieve
9 net zero by 2050 to limit global temperature rise to 1.5
10 degrees Celsius. But meeting that carbon budget means
11 that 90 percent of coal and 60 percent of both oil and gas
12 has to stay in the ground. You can't sell it and our
13 pension funds shouldn't get stuck owning it.

14 When fossil fuel investments become stranded our
15 pension funds and their beneficiaries will lose billions.
16 Investments in Russian companies were stranded literally
17 in a matter of days through sanctions, imposed not only on
18 active investments, but also implemented for passive
19 investing through changes in the index. Just like that,
20 the investment landscape changed.

21 CalPERS enjoys huge financial leverage and can
22 take thoughtful action or external events can change the
23 investment landscape in an instant.

24 Thank you.

25 CHAIRPERSON MILLER: Thank you for your comments.

1 Our next commenter is Tammy Dhanota, and come on
2 down. And like the other commenters, you'll have three
3 minutes and your time will start when you begin to speak.

4 MS. DHANOTA: Good afternoon, Chair Miller and
5 members of the Investment Committee. My name is Tammy
6 Dhanota and I'm a member of Service Employees
7 International Union, Local 521 and a CalPERS plan
8 participant for 27 years.

9 SEIU 521 members very much appreciate the work
10 you do as fiduciaries to identify and manage systemic
11 risks that can threaten pension plan participant's
12 retirement security. For several years, SEIU members have
13 been working to address one of those systemic risks in a
14 comprehensive manner, the risk of structural racism to our
15 members' retirement security.

16 SEIU members applaud CalPERS's long-standing
17 efforts in this area, including hosting major investment
18 conferences on the issues and establishing important
19 policies and programs to incorporate diversity, equity,
20 and inclusion into the work of the fund.

21 CalPERS Diversity, Equity, and Inclusion Report
22 2020-21 reflects many of the important actions taken and
23 work -- and work still to be done. The workplan is timely
24 and in line with the steps many major institutions are
25 taking to begin the -- to address historic inequities and

1 to position themselves for sustainable success in the
2 future. You may be aware wear that in the last year, both
3 BlackRock and State Street, two of the world's largest
4 asset managers agreed to conduct independent audits to
5 uncover possible racial bias in their business operations
6 and policy, and position themselves to make changes.

7 And just last week, Bloomberg reported that 50
8 percent -- 54 percent of Apple's shareholders supported a
9 shareholder resolution at Apple calling on the company to
10 conduct a civil rights audit. These are very positive
11 steps, and yet we know there is so much more work to do to
12 undue centuries of structural racism embedded in our
13 Economy.

14 A Citibank September 2020 report shows why
15 universal long-term investors like CalPERS must continue
16 to aggressively manage the structural -- the risk of
17 structural racism. The report stated the analysis in the
18 report that follows shows that if four key racial gaps for
19 blacks, wages, education, housing, and investment were
20 closed 20 years ago, 16 trillion could have been added to
21 the U.S. economy. And if the gaps are closed today, five
22 trillion can be added to the U.S. GDP over the next five
23 years.

24 Thank you again for all you do to protect CalPERS
25 members' retirement security and thank you for the

1 opportunity to share these comments today.

2 I'm going to turn it over to my SEIU 521 sister
3 to share some further comments about the need for CalPERS
4 continued leadership in this area. Thank you.

5 CHAIRPERSON MILLER: Thank you for your comments.

6 Next, we have Mullissa Willette. And you'll have
7 three minutes and your time will start when you begin to
8 speak.

9 MS. WILLETTE: Good afternoon, Chair Miller and
10 members of the Investment Committee. My name is Mullissa
11 Willette and I'm a member of Service Employees
12 International Union Local 521 and a CalPERS plan
13 participant.

14 Following up on the comments of my SEIU sister
15 Tammy Dhanota, the global leading consulting firm McKinsey
16 in its May 2020 report Diversity Wins stated that quote,
17 "The business case for gender and ethnic diversity in top
18 teams is stronger than ever. Since we first published why
19 diversity matters in 2015, the likelihood of diverse
20 companies outperforming industry peers on profitability
21 has increased significantly", end quote.

22 In spite of this clear data showing the need for
23 diversity, equity, and inclusion in finance, a recent
24 Knight Foundation report states that as of September 2022,
25 only 1.4 percent of total U.S. based assets under

1 management in our sample is managed by diverse-owned
2 firms. CalPERS, given its significant history of work and
3 leadership in this area, is positioned to benefit plan
4 participants and all CalPERS stakeholders by continuing to
5 deepen and widen your work for diversity equity and
6 inclusion.

7 We ask you to continue to lead in the following
8 ways: read and act upon the key findings from SEIU and
9 Majority Actions report, "Equity in the Board Room 2021";
10 continue to engage with major corporations and your asset
11 management partners and encourage them to, one, carry out
12 racial, equity, audits, and two disclose their lobbying
13 and political contributions, so that they and their
14 stakeholders, including CalPERS members, can understand
15 the impacts of their business practices and policies, and
16 make needed changes to dismantle inequitable practices
17 including lobbying and political contributions that may
18 threaten democratic rights and the rule of law that
19 investors count on for a stable and secure investment
20 environment;

21 Continue your corporate governance programs
22 leadership through proxy voting, company engagements and
23 director accountability work on diversity; continue to
24 engage with your investment consultants and managers, and
25 encourage them to disclose their workforce demographic

1 data, and their diversity, equity, and inclusion policies;
2 continue to fortify your efforts to build a diverse team
3 in the CalPERS Investment Office, and with your contracted
4 investment partnerships to ensure CalPERS has access to
5 all of the world's best investment, talent, and
6 opportunities; and continue the proactive steps you are
7 taking to incorporate gold standard policies and practices
8 across the enterprise to position CalPERS to remain a
9 leader in diversity, equity, and inclusion practices.

10 We thank you again for all you do as fiduciaries
11 to facilitate our retirement security and we look forward
12 to working with you to dismantle systemic risks like
13 structural racism that they're in the retirement security
14 we are all counting on.

15 Thank you.

16 CHAIRPERSON MILLER: Thank you for your comments.

17 Next, we have Michael Ring, and you'll have three
18 minutes from when you start speaking.

19 MR. RING: Hello, Chair Miller, members of the
20 Board. Good to see you all here. Very fortunate after
21 two years of pandemic time. It's good to see you all.
22 Michael Ring with Service Employees' International Union.
23 I want to thank you for the opportunity to speak to you
24 today.

25 I'm really just here to read some comments from

1 members Connie Chew who's a member of SEIU 521 who
2 unfortunately could not make the meeting today, so she
3 asked me to read her comments into the record.

4 "Dear, CalPERS Board. My name is Connie Chew and
5 I'm a retiree of the County of Santa Clara, California.
6 Thank you and your staff for all the work you do to help
7 ensure secure retirements.

8 "There is extensive data showing that racism is
9 one of the system risks that fiduciaries must begin to
10 address proactively to meet their obligations to prudently
11 manage investment risk and facilitate their staff in
12 identifying the most sustainable investment opportunities.

13 "In September of 2020, Citibank released a report
14 quote, 'Closing the Racial Inequality Gaps: The Economic
15 Cost of Black Inequality in the U.S.', which stated in
16 part quote, 'If the four racial gaps for Blacks, wages,
17 education, housing, and investment were closed 20 years
18 ago, \$16 trillion could have been added to the added to
19 the U.S. economy, and if the gaps were closed today, \$5
20 trillion can be added to the U.S. GDP over the next five
21 years', end quote.

22 "It is essential that the finance industry
23 intentionally and proactively turn away from a model of
24 wealth creation that has historically been built upon
25 racist structures. Conducting racial equity audits need

1 to become the new normal in business and finance to
2 provide a baseline understanding of the racist structures
3 that have been build over decades or centuries and if left
4 unaddressed, increase risk and limit opportunity.

5 "Please ask your asset management partners and
6 major corporations to carry out racial equity audits and
7 disclose their lobbying contributions. Furthermore,
8 younger con -- younger generations seem more in tune with
9 trustworthy environmental, social, and governance
10 protocol, and in turn funds that follow that such protocol
11 may be more viable in the future. Thank you again for all
12 you do as fiduciaries to facilitate our retirement
13 security, and we look forward to working with you to
14 dismantle systemic risks like structural racism that
15 threaten the retirement security we count on".

16 Again, those are the words of Connie Chew,
17 CalPERS member and retiree from San -- County -- Santa
18 Clara County.

19 Thank you all. Have a great day.

20 CHAIRPERSON MILLER: Great. Thank you for
21 sharing those comments with us. I don't we have any more
22 commenters, so I think that concludes that. So with that,
23 I believe we are at the point where we will adjourn.

24 INTERIM CHIEF INVESTMENT OFFICER BIENVENUE:
25 Correct and we don't need the second closed

1 session, so I think we're good.

2 CHAIRPERSON MILLER: Okay. So seeing no
3 objections, we will stand adjourned.

4 (Thereupon, the California Public Employees'
5 Retirement System, Investment Committee
6 meeting open session adjourned at 3:14 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 21st day of March, 2022.

JAMES F. PETERS, CSR
Certified Shorthand Reporter
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