Investment Office Roadmap and Target Operating Model Update

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Investment Committee

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INVO 2020 Vision

2020 Focus:

- ✓ Reduce cost, complexity, and risk
- ✓ Fewer, but more strategic partnerships with external managers.



Mission

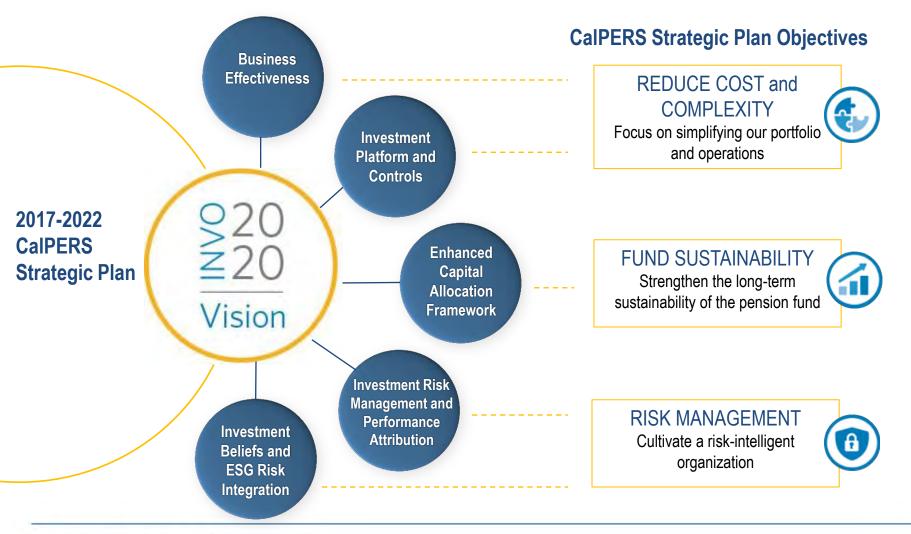
Manage the CalPERS investment portfolio in a **cost-effective**, **transparent** and **risk-aware** manner in order to generate returns to pay benefits.

Vision

- The Investment Beliefs and CalPERS Core Values are the guiding principles underlying our investment decisions.
- We operate with a focus on repeatable, predictable, and scalable portfolios and practices.
- We seek **alignment of interests** with our primary stakeholders, our business partners, and ourselves.
- We use clearly articulated performance, risk, and cost metrics to evaluate our value-add to the funds.
- Our investment and business activities are supported by a solid platform of effective risk management and controls.

S20 E20 Vision

INVO 2020 Vision | Enterprise Alignment





INVO 2020 Vision | Current State Assessment

2020 Vision → Mid-Cycle Review

Reduced Complexity

- Elimination of the Absolute Return Strategies (ARS) program
- Reduced total # of Managers from 315 → 147
- Elimination of Unused Composites and Incentive Compensation Benchmarks

Work in Progress

- Implementation of Systems: PEARS; Artemis
 *Potential to simplify
- Benchmark Changes in Private Assets
- Execution Services and Strategy Integration
- ESG Strategic Plan Development
- Establishment of Investment Manager Engagement Program (IMEP)

New Strategies

- Overlay
- Tail-Risk Hedge
- Volatility Targeting
- Opportunistic
- Segments
- Currency Position Evaluation
- Short-Term Investment Fund (STIF)
- Modifications to the Multi-Asset Class Program



INVO 2020 Vision | Mid-Cycle Refinements

Governance and Organizational Structure

Refined Strategic Objectives

2015-16

- ✓ Better aligned with goals of the broader organization
- ✓ Created new
 Mission and Vision
 statements
- ✓ Applied more active Liquidity management

2016-17

Enhanced

- ✓ Formalized <u>Trust</u>
 <u>Level Investment</u>
 <u>Decision Making</u>
- Applied a disciplined Risk and Attribution Review
- ✓ Evaluated
 Benchmarks, key
 unintended risks, asset
 class roles
- ✓ Won CalPERS Softball Championship

Enhanced Trust-level Decision Making

2017-18

Refine Trust-level Capital Allocation

Legacy Portfolio Management

Continue Organizational Realignments (NEW)

Implement Opportunistic Strategies (NEW)

Review private markets business models (NEW)

Scalable,
Repeatable, and
Reliable
Processes

2018-19

More <u>flexible</u> portfolio structure

Implement new private markets business models, if appropriate

Legacy Portfolio Management

Refine Inflation and currency impacts (NEW)

Factor-based
Portfolio and
Investment Process

2019-20

<u>Reduced risk</u> and improved sustainability

Asset Allocation aligned with liabilities (Risk Factor work) (MOVED FROM 2018)

Active Leverage Management

Fewer, but more strategic, partners

Complete
Organizational
Realignment (NEW)

✓ = Complete



INVO 2020 Vision | Organizational Realignment - Phase II



Created Global Governments and Economics group

Objective: Increase focus on and elevate key macro-economic drivers of risk and return for improved total fund decision making



Centralized Private Asset Analytics program

* To include Cash Flow/ Waterfall Analysis

Objective: Improve transparency and independence of cost, performance, risk and attribution information <u>for improved total fund decision making</u>



Re-aligned Sustainable Investments program

* To include elements of Diversity and Inclusion and Labor Engagement

Objective: Improve integration of evidenced-based ESG considerations <u>into</u> <u>the investment decision making process</u>



2017-18 Roadmap | Overview

20 ≥20 Vision

2017-18 Roadmap

30 Initiatives

20 Program Projects

Examples of initiatives focused on reducing risk, complexity, costs:

- TOM Refresh
- Investment Data Strategy
- Broker Selection and Evaluation Review
- Private Markets Business
 Model Design

- Risk Function Business Design
- Diversity and Inclusion (Board Diversity)
- Sustainable Investment Research



2017-18 Roadmap | Target Operating Model (TOM)

TOM Refresh

Goals

Reduced Complexity

Integrated Operating Model

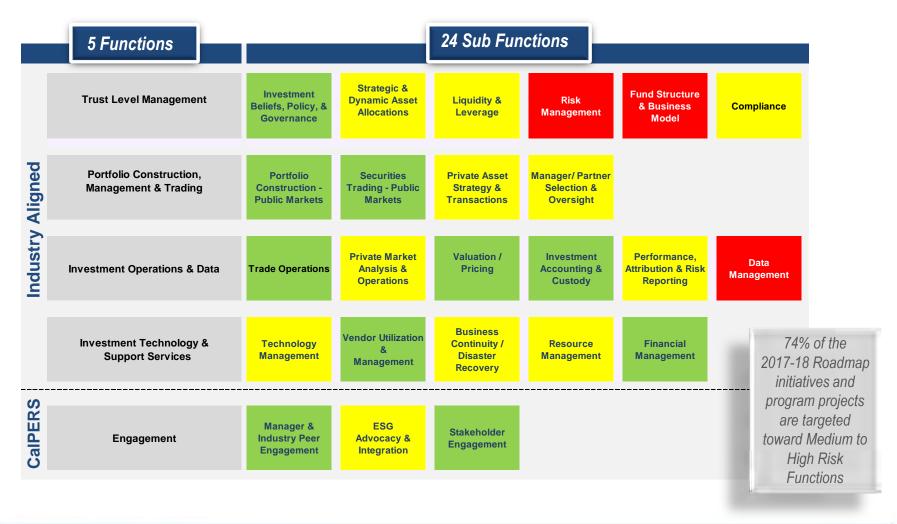
Strengthened Alignment

Outcomes

- ✓ Simplified structure and framework
- ✓ Refined and consolidated functions
 - From 6 functions to 5
 - From 46 sub-functions to 24
- ✓ Aligned operating model with the industry reference model, as applicable
- ✓ Better integrated private assets investment activities
- ✓ Addressed engagement activities unique to CalPERS
- Incorporated 2020 Vision and Enterprise goals



2017-18 Roadmap | Refined TOM Dashboard





2017-18 Roadmap | Next Steps



Continue TOM risk-level assessments



Complete 2017-18 Roadmap initiatives and program projects

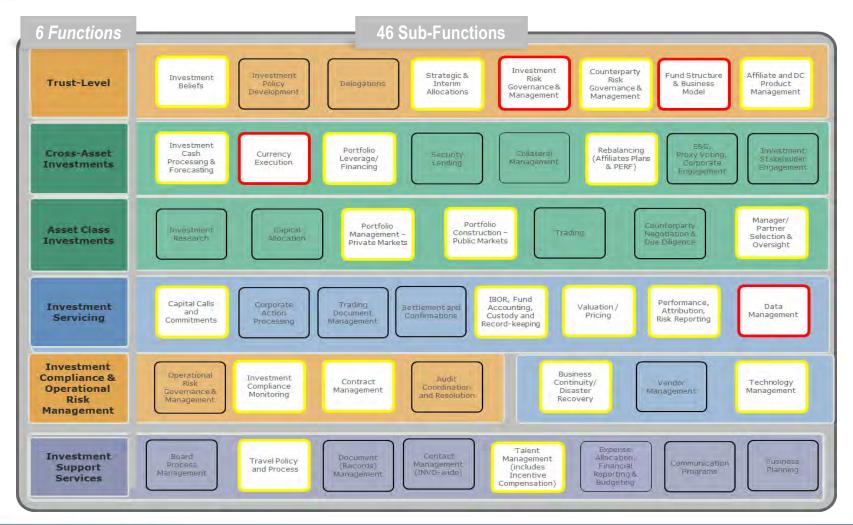


Monitor and report progress through the quarterly enterprise reporting process

Appendix



2017-18 Roadmap | Target Operating Model (TOM)



O20 E20 Vision

INVO 2020 Vision | Organizational Realignment - Phase II

