



Mendocino County Employees' Retirement Association

Finalist Presentation

May 20, 2026

Key Members Serving MCERA



Danny Sullivan, CAIA, FRM
Principal,
Consultant



Joe Abdou, CFA
Principal,
Consultant



Brian Kwan, CFA, CAIA
Partner,
Senior Consultant

LEAD CONSULTANTS

STRATEGIC ADVISOR

Our clients are served by a team of consultants, analysts, and support personnel to ensure timely response to the bespoke needs of MCERA



John Nicolini, CFA
Partner,
Senior Consultant



Ian Toner, CFA
Partner,
Head of Portfolio Solutions



Colleen Flannery, CFA
Principal,
Public Markets



Dan Hougard, FSA, CFA
Principal,
Actuarial Consultant



Phillip Thomas
Senior Associate,
Investment Analytics

SUPPORT TEAM

Cerity Partners At a Glance

Extensive Resources, personal approach



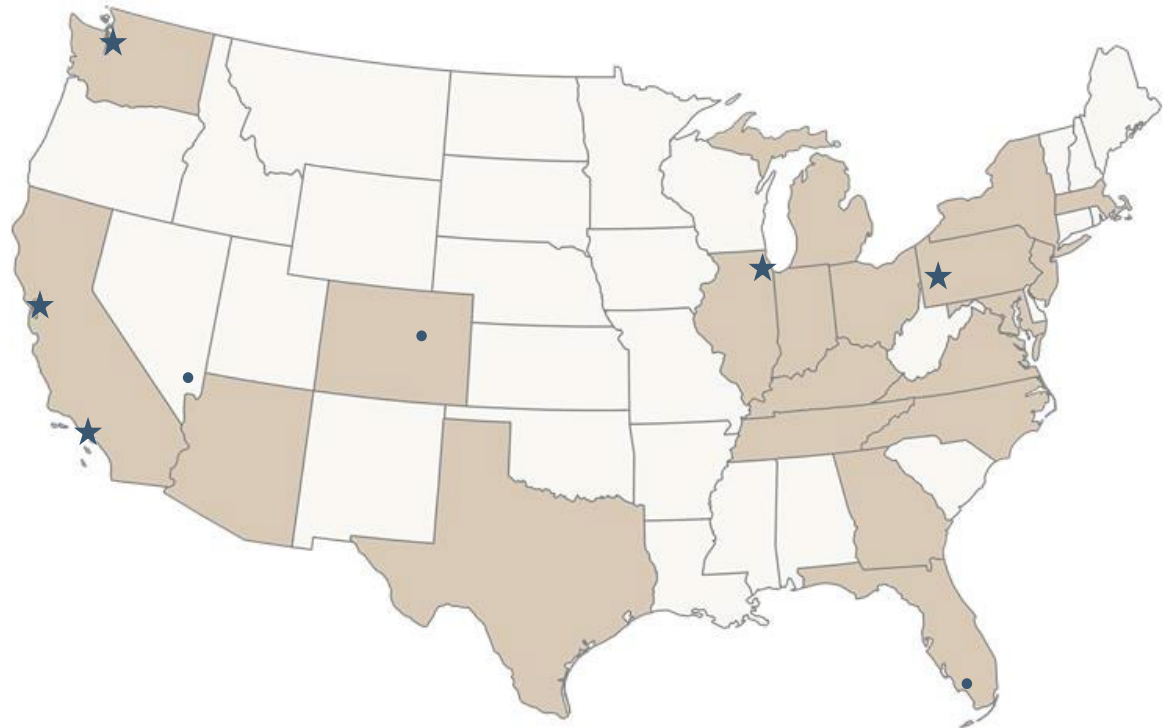
Our Mission: To enrich and have a positive impact on the financial well-being of the clients, colleagues, and the communities in which we operate

Key Stats

- › \$1.2 T+ in AUA*
- › Ownership structure benefits clients
- › 30+ markets in 20 states
- › Over 4 Decades of Experience
- › Serve 7 California County Plans

Services

- › Institutional Consulting
- › Discretionary OCIO
- › Corporate Venture Capital
- › Executive Financial Planning
- › Wealth Management



*As of 12/31/2025

★ Institutional Consulting Colleagues

● Remote Colleagues

Pure Consulting Focus

We serve as fiduciaries and are aligned with our clients

Asset Allocation

- › Capital market assumptions
- › Portfolio modeling
- › Risk management
- › Liquidity analysis
- › Market research

Governance

- › Defining long-term goals
- › Enterprise risk tolerance
- › Board & Staff education
- › IPS development & ongoing maintenance
- › Fiduciary best practices

Investment Analytics

- › Macro & capital markets
- › Performance oversight & reporting
- › Risk reporting
- › Peer comparisons

Public Markets

- › Investment structure
- › Manager search selection, & monitoring
- › Portfolio planning
- › Evaluation of manager & program fees

Private Markets

- › Pacing analysis
- › Manager search, selection & monitoring
- › Performance oversight & reporting
- › Operational support

Within the industry, there are firms who also have the following revenue sources:

- X Proprietary Investment Funds/Products
- X Subscription to Database &/or manager conferences
- X Other Business Lines (e.g., Actuarial, Accounting, Custody, etc.)

Cerity Partners Institutional Consulting does **not** receive revenue from **any** of the above sources

Partnering With Clients That Invest Like You

REPRESENTATIVE PUBLIC CLIENTS

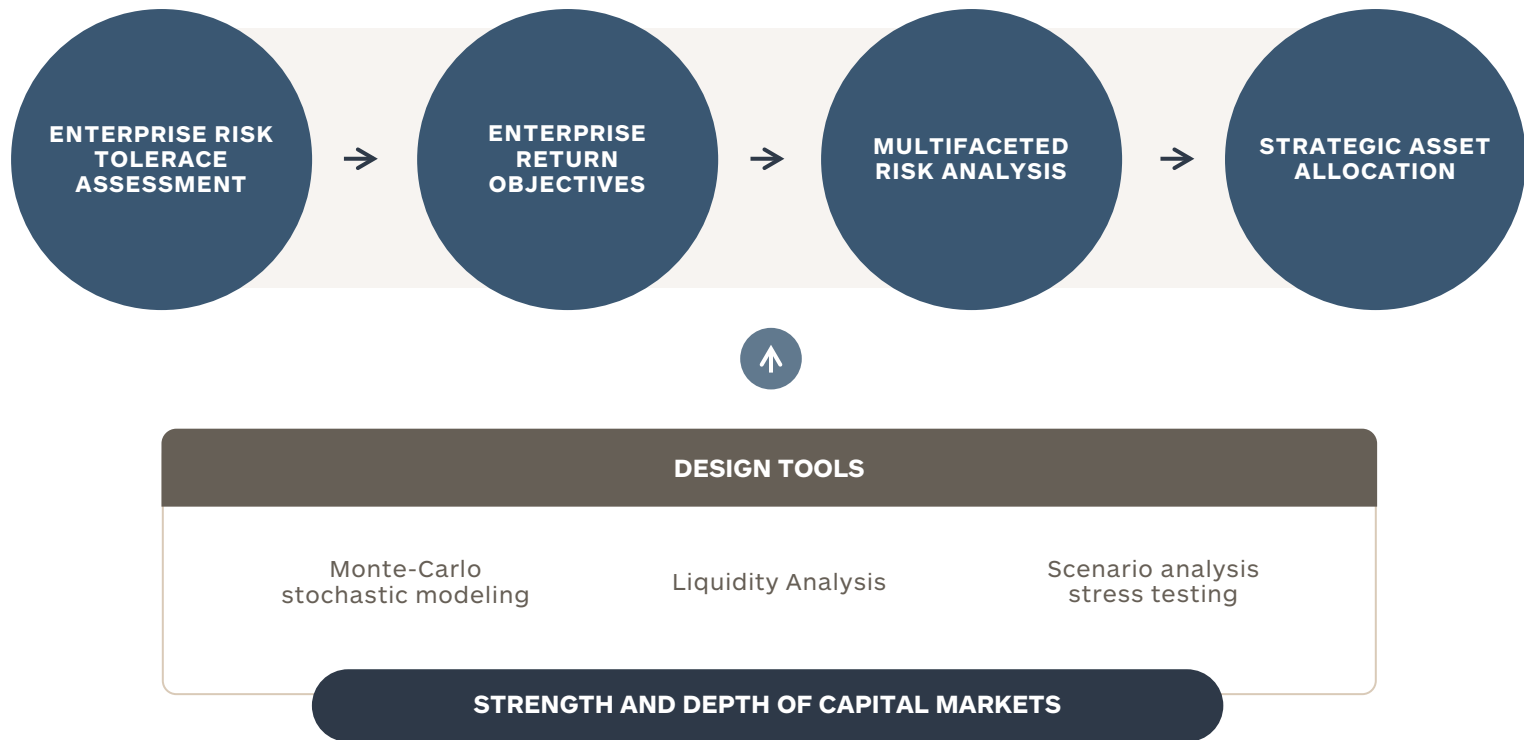


WEST VIRGINIA INVESTMENT MANAGEMENT BOARD



This is an excerpt of CPIC clients as of December 2025 who have provided permission to use their name or logo. It is not known whether the listed clients approve of CPIC or the advisory services provided

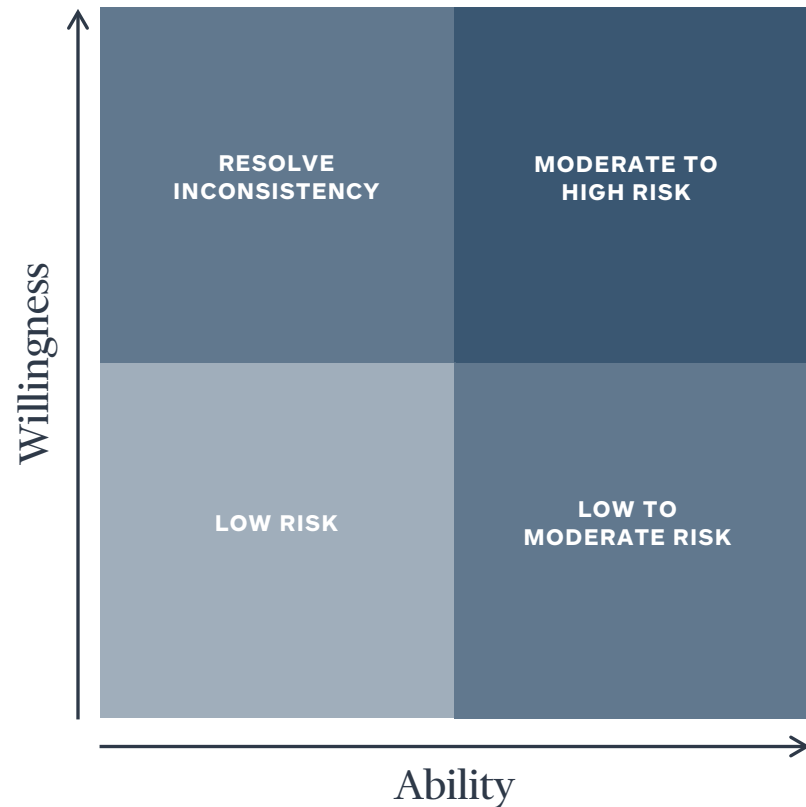
Meeting Your Objectives



What is Risk Tolerance?

It is where the *willingness* and *ability* to assume risk intersect

- › **Willingness** is a qualitative measure ascertained through discussions with the Board
- › **Ability** is a quantitative measure based on economics of the assets
 - Historical cash flows and expectations
 - Liquidity needs
 - Time horizon



Initial Thoughts on Asset Allocation

				2026 CMA's (10 Yr)		
	Policy	Mix 1	Mix 2	Return (g)	Standard Deviation	Sharpe Ratio
Domestic Equity						
US Large	26	22	22	5.4	15.5	0.10
US Mid/Small	11	10	10	6.4	21.2	0.12
International Equity						
International Developed	25	17	17	6.7	17.5	0.25
Total Public Equity	62	49	49			
Fixed Income						
Core Fixed Income	10.5	10.5	10.5	4.7	4.9	0.18
Core Plus Fixed Income	10.5	10.5	10.5	4.8	4.6	0.22
Multi-Asset Credit	-	-	6	5.9	9.3	0.23
Total Public Fixed Income	21	21	27			
Real Assets						
Core Real Estate	11	7	6	7.2	11.7	0.29
Value Add Real Estate	-	7	6	9.2	14.4	0.38
Infrastructure	6	6	6	8.1	16.8	0.33
Total Real Assets	17	20	18			
Private						
Private Equity	-	5	-	8.0	26.0	0.16
Private Credit	-	5	5	7.7	13.3	0.29
Total Private Investments	-	10	5			
Cash						
	-	-	-	3.7	1.1	
Total Allocation	100	100	100			

There are potential opportunities to improve expected outcomes. Relative to the Policy:

- › Mix 1 focuses on increasing expected return and reduces portfolio volatility
- › Mix 2 focuses on a similar expected return but further reduces portfolio volatility
- › Both Mix 1 and Mix 2 increase illiquidity and align the public equity portfolio with a global equity index

	Policy	Mix 1	Mix 2
Expected Outcomes (10-Year)			
Median Annual Return (%)	6.4	6.8	6.6
25 th Percentile Annual Return (%)	-1.5	-0.8	-0.6
75 th Percentile Annual Return (%)	14.4	14.5	13.9
Standard Deviation (%)	11.9	11.1	10.9
Sharpe Ratio	0.29	0.33	0.32
% Liquid Assets	83%	70%	77%
% Illiquid Assets	17%	30%	23%
Actuarial Assumed Return (%)	6.5		

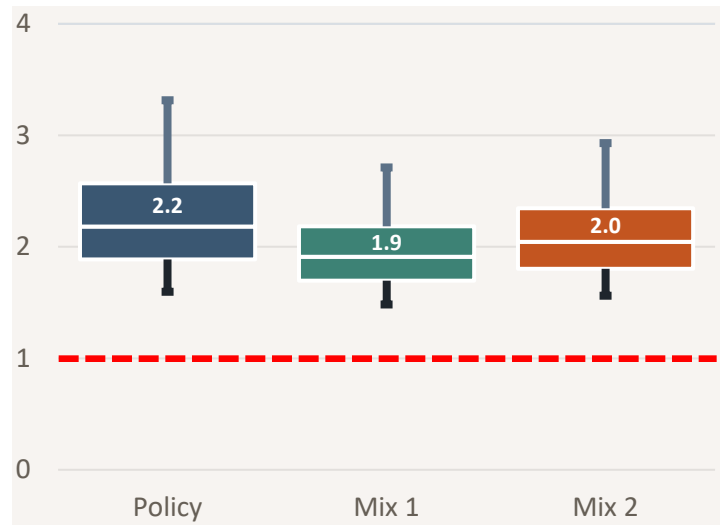
Source: Cerity Partners Institutional Consulting, Markov Processes International (MPI)

MPI analysis demonstrates the likely allocation of the fund's assets to different risk factors (US Equity, global ex-US Equity, US Bonds, US Credit, etc.) over the prior five-year market environment. This chart is exponentially-weighted, meaning more emphasis is placed on more recent market behavior and less emphasis is placed on older data.

Assessing Liquidity Risk

Liquidity risk is a critical consideration for portfolios with variable cash flows and/or private market programs.

DISTRIBUTION OF 10-YEAR LCR



10-Year LCR	Policy	Mix 1	Mix 2
Percentile			
95%	3.3	2.7	2.9
75%	2.6	2.2	2.3
50%	2.2	1.9	2.0
25%	1.9	1.7	1.8
5%	1.6	1.5	1.6
Probability of Liquidity Event	~0%	~0%	~0%

- › Cerity uses the Liquidity Coverage Ratio (LCR) to analyze and communicate liquidity risk.
- › Based on preliminary data, we do not expect any of the portfolios to experience liquidity issues over the next ten years, including in adverse market environments.

LCR FORMULA

$$\text{Liquidity Coverage Ratio (LCR)} = \frac{\begin{matrix} \text{Starting Liquid Financial Assets} \\ \sum(\text{Distributions from Illiquid Assets}) \\ \sum(\text{Contributions}) \end{matrix}}{\begin{matrix} \sum(\text{Liquid Investment Return}) \\ \sum \text{Benefit Payments} \\ \sum \text{Administrative Expenses} \\ \sum(\text{Capital Calls for Illiquid Assets}) \end{matrix}}$$

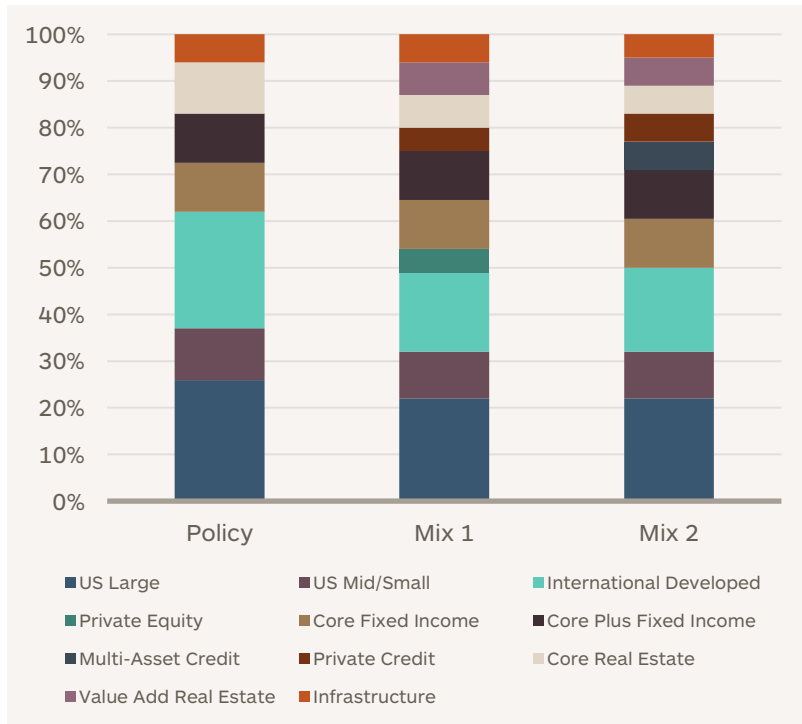
LCR Value	Implication
<1	Insufficient liquid assets
>1	Sufficient liquid assets

Plan benefit payments and contributions sourced from the actuarial report. We assume 13% of illiquid assets are distributed annually and capital calls are set to maintain illiquid targets.

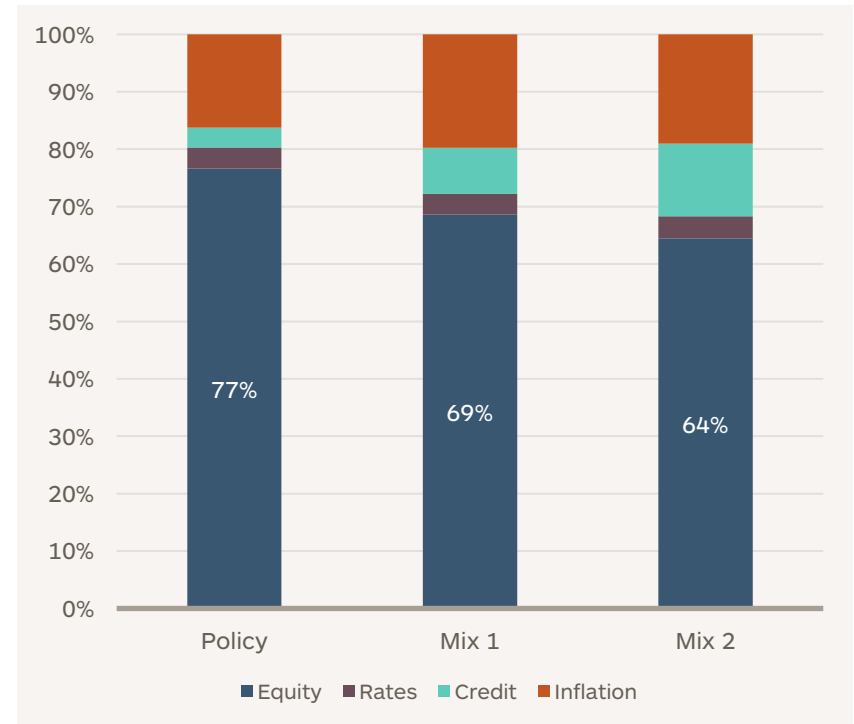
Risk Contribution

Equity risk is often the most significant contributor to overall portfolio risk

ASSET ALLOCATION BY ASSET CLASS



RISK CONTRIBUTION BY ASSET CLASS



Source: Cerity Partners Institutional Consulting, Markov Processes International (MPI)

MPI analysis demonstrates the likely allocation of the fund's assets to different risk factors (US Equity, global ex-US Equity, US Bonds, US Credit, etc.) over the prior five-year market environment. This chart is exponentially-weighted, meaning more emphasis is placed on more recent market behavior and less emphasis is placed on older data.

Investment Research Team and Structure

65 colleagues in research

Team organization by group

PUBLIC MARKETS			PRIVATE MARKETS			
 Yelena Pelimskaya, CFA	 Maxine Jamison	 Aydan Panahova	 Chris Burrows	 Sal Russo	 Tim Ringelstein, CFA	 Rafal Wojtanowski, CFA
 Kent Muckel, CFA	 Pat Machell, CFA	 Brecken Eatherton, CFA	 Nat Fraser, CFA	 Jeff Curtis, CFA	 Pat Callahan, CFA	 Bridget Walston
 Brad Edson, CFA	 Charlie Fidler	 Andy Strong	 Talene Tse	 Chambers Giblin, CFA	 Colton Eicher	 Wyatt Chochrek
 Colleen Flannery, CFA	 Vincent Francom, CFA, CAIA	 Joshua Freimark	 Faraz Shooshani	 Nico Caballero	 Jing Chen	 Matt Foppiano
 Kyle Jangard, CFA	 Nicholas Pecache	 Sneha Pendyala, CFA	 John Nicollini, CFA	 Vincent Phan	 Chris Shelby, CFA	
STRATEGY & SUPPORT			MARKETABLE ALTERNATIVES		OPERATIONAL DUE DILIGENCE	
 Ben Pace	 Jim Lebenthal, CFA		 Darren Myers, CFA	 Nick Hartnett, CFA	 Adam Cohen, CAIA	 Luke Ketzenbarger
 John Hyman	 Joe Matus, CFA		 Kirill Buzinov	 Finn Reinemer	 Sonja Choate	 Owen Evans, CFA
 Chase Norcini, CFA	 Ian Toner, CFA		 Paul Kreiselmaier, CFA	 Trevor Parmelee, CFA, CAIA	 Jonathan Henderson	 James Wadner
 Thomas Garrett, CFA, FRM, CAIA	 Dan Hougard, FSA, CFA				 Callum Olsen	
INVESTMENT RISK MGMT.			PORTFOLIO MGMT.			
 Karl Wichorek	 Tia Sun, CFA		 Matt Westfall	 Greg Mitseas	 Adam Zona	 Stephon Boulay
			 Tri Nguyen	 Dimitri Natsis, CFA	 Jason Fajardo	 Michael Hughes, CFA, CAIA

Identifying Top-Tier Managers

WHAT WE LOOK FOR

A

Alignment

Alignment reflects how the strategy is supported by a stable organizational, incentive and team structure

E

Edge

Reflects articulation of an inefficiency or market-based belief and willingness to take risk based on that belief

I

Implementation

Reflects an investment approach that is sensible and repeatable

O

Optimal use of risk

Reflects an effective framework of assessing, exploiting and managing risk inherent in the investment process

U

Understandable performance

Historical and future performance sensitivities are consistent with manager's expressed process

HOW WE COMMUNICATE OUR ASSESSMENT

RATING	CONVICTION	DEFINING CHARACTERISTICS
IQ1	Very High	Earns Cerity Partners Institutional Consulting' highest conviction. Above-average characteristics most likely to achieve the strategy's desired results.
IQ2	High	Maintains Cerity Partners Institutional Consulting' high conviction. Above-average characteristics most likely to achieve strategy's desired results.
IQ3	Positive	Meets institutional quality standards that can achieve desired investment results. Strengths outweigh weaknesses.
4	Low	Concerns with the product's ability to meet institutional-quality standards.
5	Very Low	Significant issues inhibit the product's ability to meet institutional-quality standards.

This information is for Cerity Partners Institutional Consulting and its predecessor firm only.

Proactive Communication

Apprising clients about the economy, markets, and portfolio construction is a key component of our service

Regular Quarterly Research Reports

- › Macroeconomic conditions
- › Capital market valuations
- › Risk and trend analysis
- › Quarterly investment landscape

In-depth Annual Outlooks

- › Private equity outlook
- › Real assets outlook
- › Hedge fund philosophy
- › Active management environment
- › Capital market assumptions

Timely & Varied Thought Leadership

- › Ten thoughts for 2026
- › State of the Core Real Estate Fund Universe
- › LDI for Public Sponsors
- › So, What Now?
- › Driving OCIO Through Governance
- › Examining the Case for Private Credit
- › Selecting exceptional private markets managers: Strategies for success in a complex arena
- › Using fixed income to avoid downside risk
- › Trends and challenges in the commercial real estate sector

Customized Education

Public fund client examples

1

Active risk budgeting

2

Implementing private markets

3

Re-balancing best practices

4

Currency hedging

5

Portable alpha and total fund leverage

6

Introduction to risk management

7

Benchmarking

8

EM ex China

Creating and delivering educational sessions to assist client investment decision-making is one of Cerity Partners' key strengths

Our Commitment



ALIGNMENT

Part of your team

We focus on our clients and their fiduciary duty



CUSTOM PORTFOLIOS

Meeting your goals

We help our clients build portfolios specific to their objectives and constraints



TIMELY

Enhancing decision-making

We provide actionable research and education



FOCUSED

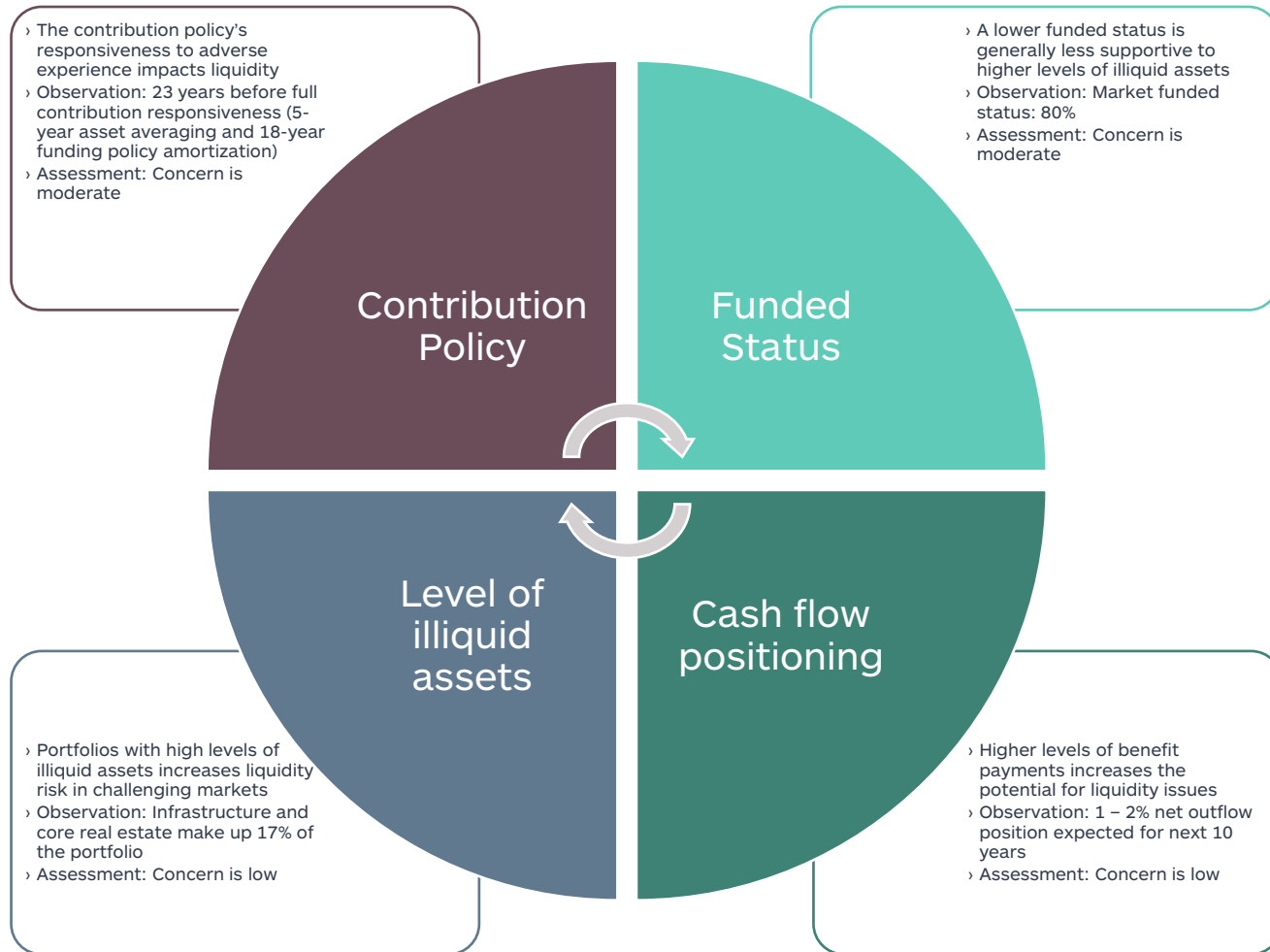
Incorporating your preferences

We support due diligence on ideas generated by clients

Appendix

MCERA Liquidity Considerations

We will conduct a detailed liquidity analysis with the asset allocation study



Our Investment Philosophy

Six key ideas that drive our approach



Client

Return objectives, tolerance for risk, and the strategic mission of the enterprise should drive strategic asset allocation.



Market

Risk-free rates and risk premia drive most market returns and are themselves influenced by market and economic fundamentals.



Skill

Investment skill exists, and the deployment of active management where inefficiencies can be exploited is often essential to achieving investment success in both public and private markets.



Costs

Fees and costs must be managed and minimized where appropriate.



Humility

Good results can best be achieved by managing uncertainty using varied risk management tools, complemented by discipline, skepticism and humility.



Simplicity

A portfolio should be as simple as possible for the goals it is designed to achieve. Investment complexity requires strong governance and appropriate investment oversight.

Total Portfolio Performance Reporting

ASSET ALLOCATION & IPS GUIDELINE MONITORING

Monitor current weights vs. policy weights, including the min and max allowable ranges

MEANINGFUL PEER COMPARISONS & BENCHMARKING

Investment Metrics collects data from 45 institutional consultants and 5 third party data contributors

5,000+ monthly and 800+ daily indices

PERFORMANCE ATTRIBUTION ANALYSIS

Calculations both at the total portfolio, asset composite, and manager levels

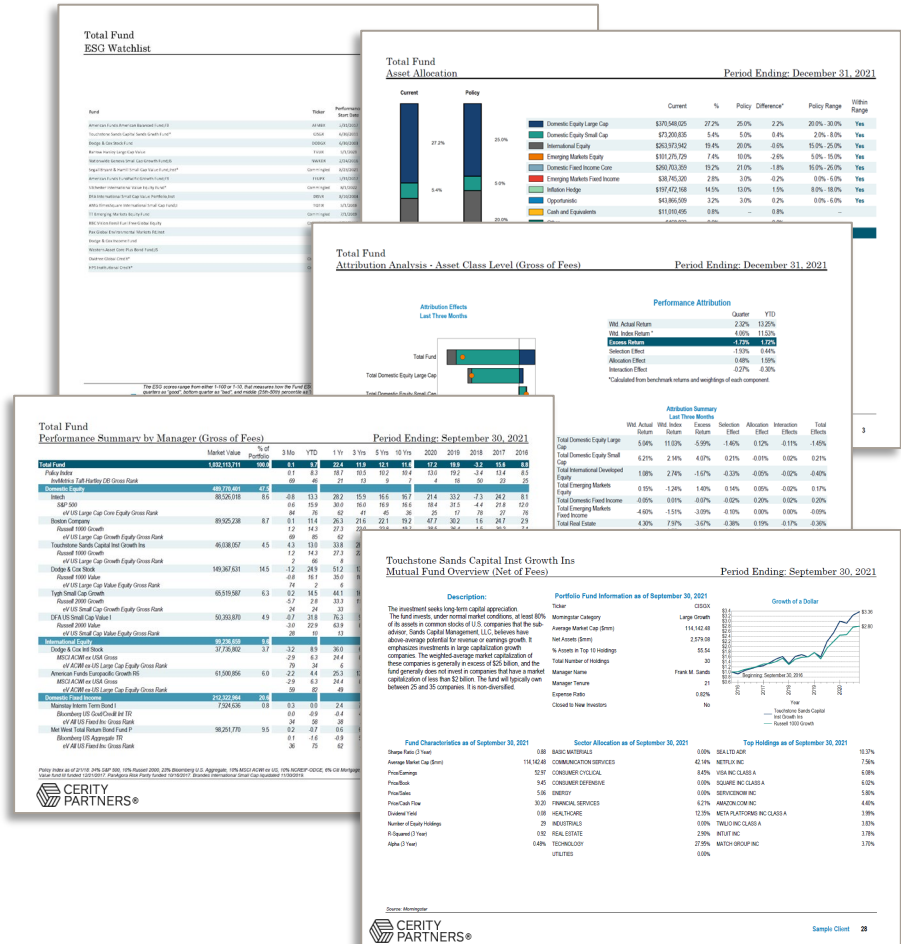
Isolates individual manager skill from market movements and rebalancing or policy changes

CUSTOMIZED PRIVATE MARKETS REPORTING

Provide detail related to vintage year, sector, industry and peer rankings for IRR, DPI, and TVPI

INVESTMENT MANAGER FEES

Track fees at the individual manager level



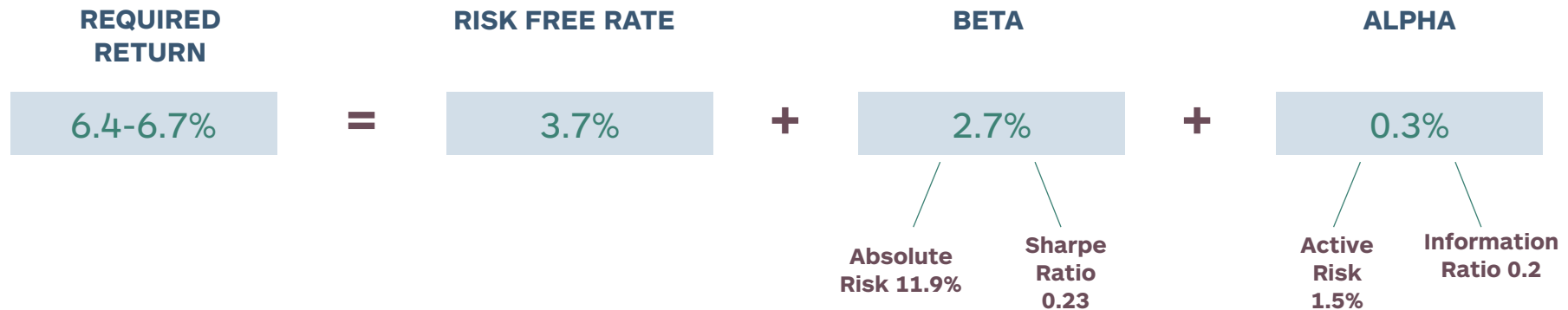
Source Cerity Partners Institutional Consulting, Investment Metrics. For illustrative purposes only. This information is for Cerity Partners Institutional Consulting and its predecessor firm only.

Active risk and total fund returns (theory)

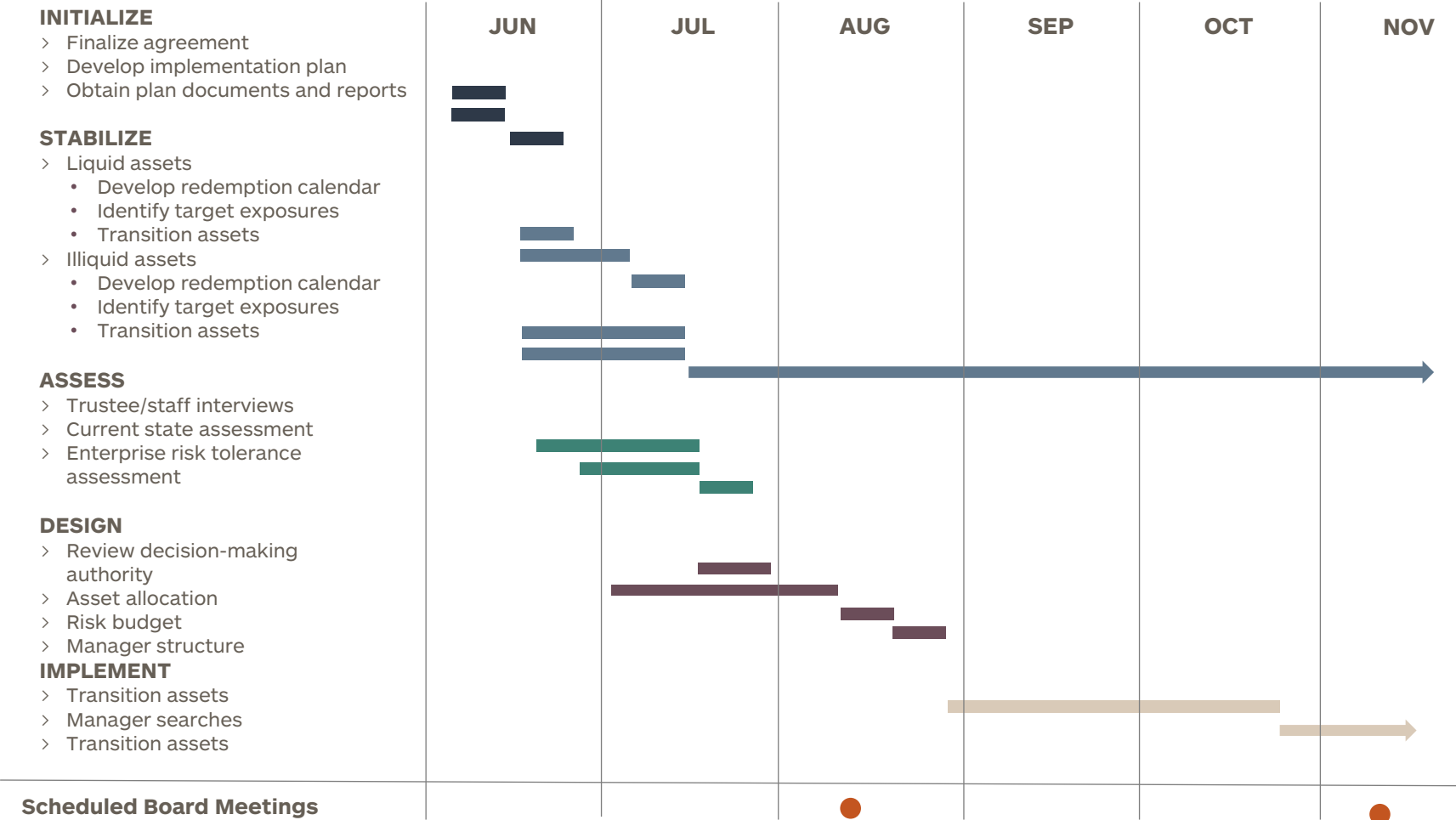
The amount of active risk a plan should take is a function of:

1. The amount of total alpha that is targeted
2. The expected efficiency in which that alpha can be obtained (information ratio)

› An example:



Representative Workplan (illustrative)



10-Year Return & Risk Assumptions

ASSET CLASS	INDEX PROXY	TEN YEAR RETURN FORECAST		STANDARD DEVIATION FORECAST	SHARPE RATIO FORECAST (G)	SHARPE RATIO FORECAST (A)	10-YEAR HISTORICAL SHARPE RATIO (G)	10-YEAR HISTORICAL SHARPE RATIO (A)
		GEOMETRIC	ARITHMETIC					
EQUITIES								
U.S. Large	S&P 500	5.4%	6.5%	15.5%	0.10	0.17	0.86	0.88
U.S. Small	Russell 2000	6.4%	8.4%	21.2%	0.12	0.22	0.37	0.45
International Developed	MSCI EAFE	6.8%	8.2%	17.4%	0.17	0.25	0.44	0.50
International Small	MSCI EAFE Small Cap	9.4%	11.4%	21.2%	0.26	0.36	0.35	0.42
Emerging Markets	MSCI EM	6.7%	9.3%	24.2%	0.12	0.23	0.38	0.45
Global Equity	MSCI ACWI	6.0%	7.3%	16.6%	0.13	0.21	0.67	0.70
Global Equity ex USA	MSCI ACWI ex USA	6.9%	8.6%	19.2%	0.16	0.25	0.42	0.47
Private Equity	CA Private Equity	8.0%	10.9%	26.0%	0.16	0.27	-	-
Private Equity Direct	CA Private Equity	9.0%	11.9%	26.0%	0.20	0.31	-	-
Private Equity (FoF)	CA Private Equity	7.0%	10.0%	26.0%	0.12	0.24	-	-
FIXED INCOME								
Cash	30 Day T-Bills	3.7%	3.7%	1.1%	-	-	-	-
U.S. TIPS	Bloomberg U.S. TIPS 5-10	4.5%	4.7%	5.5%	0.13	0.16	0.18	0.20
Non-U.S. Inflation Linked Bonds	Bbg World Govt. Inf Linked Bond ex U.S.	4.1%	3.7%	7.3%	0.04	-0.01	-0.04	-0.01
U.S. Treasury	Bloomberg Treasury 7-10 Year	4.2%	4.4%	7.1%	0.06	0.08	-0.15	-0.11
Long U.S. Treasury	Bloomberg Treasury 20+ Year	4.7%	5.6%	13.4%	0.07	0.13	-0.19	-0.13
Global Sovereign ex U.S.	Bloomberg Global Treasury ex U.S.	2.7%	3.2%	9.9%	-0.11	-0.06	-0.26	-0.21
Global Aggregate	Bloomberg Global Aggregate	3.8%	4.0%	6.6%	0.00	0.03	-0.15	-0.11
Core Fixed Income	Bloomberg U.S. Aggregate Bond	4.7%	4.8%	4.9%	0.18	0.20	-0.05	-0.02
Core Plus Fixed Income	Bloomberg U.S. Universal	4.8%	4.9%	4.6%	0.22	0.24	0.04	0.06
Investment Grade Corp. Credit	Bloomberg U.S. Corporate Investment Grade	4.8%	5.1%	8.3%	0.12	0.16	0.15	0.18
Short-Term Gov't/Credit	Bloomberg U.S. Gov't/Credit 1-3 Year	4.2%	4.3%	3.6%	0.11	0.14	-0.10	-0.09
Short-Term Credit	Bloomberg Credit 1-3 Year	4.4%	4.5%	3.6%	0.17	0.19	0.23	0.24
Intermediate Credit	Bloomberg U.S. Intermediate Credit	4.6%	4.8%	5.9%	0.14	0.17	0.21	0.22
Long-Term Credit	Bloomberg Long U.S. Credit	4.7%	5.3%	11.0%	0.08	0.14	0.11	0.16
High Yield Corp. Credit	Bloomberg U.S. Corporate High Yield	5.7%	6.2%	10.7%	0.18	0.22	0.55	0.56
Bank Loans	Morningstar LSTA US Leveraged Loan	6.1%	6.5%	8.7%	0.26	0.31	0.62	0.63
Global Credit	Bloomberg Global Credit	4.3%	4.6%	7.7%	0.06	0.10	0.13	0.16
Emerging Markets Debt (Hard)	JPM EMBI Global Diversified	7.4%	7.8%	10.5%	0.35	0.38	0.23	0.27
Emerging Markets Debt (Local)	JPM GBI-EM Global Diversified	5.6%	6.3%	12.1%	0.16	0.21	0.13	0.19
Securitized Credit	Bbg U.S. Securitized: MBS, ABS, and CMBS	5.1%	5.2%	4.0%	0.35	0.35	-0.12	-0.09
Multi-Asset Credit	50/50 (High Yield / Bank Loans)	5.9%	6.4%	9.3%	0.23	0.27	-	-

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10-Year Return & Risk Assumptions

ASSET CLASS	INDEX PROXY	TEN YEAR RETURN FORECAST		STANDARD DEVIATION FORECAST	SHARPE RATIO FORECAST (G)	SHARPE RATIO FORECAST (A)	10-YEAR HISTORICAL SHARPE RATIO (G)	10-YEAR HISTORICAL SHARPE RATIO (A)
		GEOMETRIC	ARITHMETIC					
FIXED INCOME (CONT'D)								
Private Credit	Morningstar LSTA US Leveraged Loan	7.7%	8.5%	13.3%	0.29	0.35	-	-
Private Credit (Direct Lending - Unlevered)	Morningstar LSTA US Leveraged Loan	6.3%	6.7%	8.7%	0.29	0.33	-	-
Private Credit (Direct Lending - Levered)	Morningstar LSTA US Leveraged Loan	7.4%	8.1%	12.3%	0.29	0.35	-	-
Private Credit (Credit Opportunities)	Morningstar LSTA US Leveraged Loan	8.4%	9.6%	16.0%	0.29	0.36	-	-
Private Credit (Junior Capital / Mezzanine)	Morningstar LSTA US Leveraged Loan	7.8%	8.7%	14.0%	0.29	0.35	-	-
Private Credit (Distressed)	Morningstar LSTA US Leveraged Loan	8.6%	12.2%	29.1%	0.16	0.29	-	-
FIXED INCOME								
Commodities	Bloomberg Commodity	6.4%	7.7%	15.8%	0.17	0.25	0.14	0.20
Hedge Funds	HFRI Fund Weighted Composite	5.1%	5.4%	7.5%	0.17	0.21	0.70	0.70
Hedge Fund of Funds	HFRI Fund of Funds Composite	4.1%	4.4%	7.5%	0.04	0.08	0.50	0.51
Hedge Funds (Equity Style)	Custom HFRI Benchmark Mix*	5.4%	6.3%	14.0%	0.11	0.18	0.50	0.53
Hedge Funds (Credit Style)	Custom HFRI Benchmark Mix*	5.3%	5.7%	9.3%	0.16	0.20	0.77	0.77
Hedge Funds (Asymmetric Style)	Custom HFRI Benchmark Mix*	5.3%	5.6%	6.3%	0.25	0.29	0.63	0.63
Real Estate Debt	Bloomberg CMBS IG	6.3%	6.6%	7.3%	0.34	0.38	0.12	0.14
Core Real Estate	NCREIF Property	7.2%	7.9%	11.7%	0.29	0.35	-	-
Value-Add Real Estate	NCREIF Property + 200bps	9.2%	10.2%	14.4%	0.38	0.44	-	-
Opportunistic Real Estate	NCREIF Property + 300bps	10.2%	12.0%	19.8%	0.32	0.41	-	-
REITs	FTSE Nareit Equity REITs	7.2%	8.8%	18.0%	0.19	0.28	0.25	0.33
Global Infrastructure	S&P Global Infrastructure	8.2%	9.5%	16.5%	0.27	0.35	0.44	0.50
Risk Parity**	S&P Risk Parity 10% Vol Index	6.9%	7.4%	10.0%	0.32	0.36	0.52	0.55
Currency Beta	MSCI Currency Factor Index	2.1%	2.2%	3.3%	-0.52	-0.48	-0.74	-0.72
Inflation		2.7%	-	-	-	-	-	-
60/40 Portfolio (Global Equity / Core Fixed)		5.7%	6.3%	11.0%	0.17	0.23	0.62	0.60

Investors wishing to produce expected geometric return forecasts for their portfolios should use the arithmetic return forecasts provided here as inputs into that calculation, rather than the single-asset-class geometric return forecasts. This is the industry standard approach, but requires a complex explanation only a heavy quant could love, so we have chosen not to provide further details in this document – we will happily provide those details to any readers of this who are interested.

*To represent hedge fund styles, we use a combination of HFRI benchmarks: Equity Style = 33% HFRI Fundamental Growth, 33% HFRI Fundamental Value, 33% HFRI Activist. Credit Style = 20% HFRI Distressed/Restructuring, 20% HFRI Credit Arbitrage, 20% HFRI Fixed Income-Corporate, 20% HFRI Fixed Income-Convertible Arbitrage, 20% HFRI Fixed Income-Asset Backed. Asymmetric Style = 50% HFRI Relative Value, 50% HFRI Macro

**The Risk Parity forecast shown here assumes a 10% target volatility strategy. We recommend customizing this forecast to the target volatility specifications of the risk parity strategy that an investor wishes to model. Please speak with your Cerity Partners Institutional Consulting consultants for customization needs.

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Correlation Assumptions

	Cash	US Large	US Small	Intl Large	Intl Small	EM	Global Equity	PE	US TIPS	US Treasury	Global Sovereign ex-US	US Core	Core Plus	Short-Term Gov't/Credit	Short-Term Credit	Long-Term Credit	US HY	Bank Loans	Global Credit	EMD USD	EMD Local	Commodities	Hedge Funds	Real Estate	REITs	Infrastructure	Currency Beta	Risk Parity
Cash	1.0																											
US Large	0.0	1.0																										
US Small	-0.1	0.9	1.0																									
Intl Large	0.0	0.8	0.8	1.0																								
Intl Small	0.0	0.8	0.8	1.0	1.0																							
EM	0.0	0.7	0.6	0.8	0.8	1.0																						
Global Equity	0.0	1.0	0.9	0.9	0.9	0.8	1.0																					
PE	0.0	0.7	0.6	0.5	0.5	0.5	0.7	1.0																				
US TIPS	0.0	0.5	0.4	0.5	0.5	0.4	0.5	0.1	1.0																			
US Treasury	0.2	0.2	0.1	0.2	0.2	0.2	0.2	-0.1	0.8	1.0																		
Global Sovereign ex-US	0.1	0.4	0.3	0.5	0.6	0.6	0.5	0.1	0.7	0.7	1.0																	
US Core	0.2	0.4	0.3	0.4	0.4	0.4	0.4	0.1	0.8	0.9	0.8	1.0																
Core Plus	0.1	0.5	0.4	0.5	0.5	0.5	0.5	0.1	0.9	0.9	0.8	1.0	1.0															
Short-Term Gov't/Credit	0.4	0.2	0.1	0.3	0.3	0.3	0.3	0.0	0.7	0.8	0.7	0.9	0.8	1.0														
Short-Term Credit	0.2	0.4	0.4	0.5	0.6	0.5	0.5	0.1	0.7	0.6	0.7	0.8	0.9	0.9	1.0													
Long-Term Credit	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.2	0.8	0.7	0.8	0.9	0.9	0.7	0.8	1.0												
US HY	0.0	0.8	0.8	0.8	0.8	0.7	0.8	0.4	0.6	0.2	0.5	0.5	0.6	0.4	0.7	0.7	1.0											
Bank Loans	0.0	0.6	0.7	0.6	0.7	0.6	0.6	0.3	0.3	-0.1	0.2	0.2	0.3	0.1	0.5	0.4	0.8	1.0										
Global Credit	0.0	0.6	0.6	0.8	0.8	0.7	0.7	0.2	0.8	0.6	0.8	0.8	0.9	0.7	0.9	0.9	0.8	0.6	1.0									
EMD USD	0.1	0.7	0.6	0.7	0.7	0.7	0.7	0.4	0.6	0.4	0.7	0.7	0.7	0.5	0.7	0.8	0.8	0.7	0.9	1.0								
EMD Local	0.1	0.5	0.4	0.7	0.7	0.8	0.7	0.4	0.5	0.3	0.7	0.5	0.6	0.4	0.6	0.7	0.7	0.5	0.8	0.8	1.0							
Commodities	-0.1	0.4	0.4	0.4	0.4	0.5	0.4	0.3	0.2	-0.2	0.1	0.0	0.0	-0.1	0.1	0.1	0.5	0.5	0.3	0.3	0.4	1.0						
Hedge Funds	-0.1	0.8	0.9	0.8	0.8	0.7	0.8	0.4	0.4	0.0	0.3	0.3	0.4	0.1	0.5	0.5	0.8	0.7	0.7	0.7	0.5	0.5	1.0					
Real Estate	-0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.1	0.1	0.2	0.0	0.2	0.2	0.3	0.1	0.3	0.3	0.1	0.2	0.4	1.0				
REITs	-0.1	0.8	0.8	0.7	0.7	0.6	0.8	0.5	0.6	0.3	0.5	0.5	0.6	0.3	0.5	0.7	0.7	0.6	0.7	0.7	0.5	0.4	0.7	0.3	1.0			
Infrastructure	0.0	0.8	0.7	0.8	0.8	0.7	0.8	0.5	0.5	0.2	0.5	0.4	0.5	0.3	0.6	0.6	0.8	0.7	0.7	0.8	0.7	0.5	0.7	0.2	0.8	1.0		
Currency Beta	0.0	-0.1	-0.2	-0.2	-0.3	-0.2	-0.2	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.2	-0.2	-0.2	-0.2	-0.3	-0.2	-0.2	-0.1	-0.1	-0.2	-0.1	-0.2	1.0	
Risk Parity	0.0	0.8	0.7	0.8	0.8	0.7	0.8	0.5	0.7	0.5	0.6	0.6	0.7	0.5	0.7	0.7	0.8	0.6	0.8	0.8	0.6	0.5	0.7	0.3	0.8	0.8	-0.1	1.0

This information is for Cerity Partners Institutional Consulting and its predecessor firm only.



THANK YOU