

# Parametric Liability Driven Investing Solutions

## STRATEGY OVERVIEW

Parametric Liability Driven Investing (LDI) solutions are a suite of comprehensive, systematic, risk-managed solutions for all stages of the LDI process. Each approach is designed with the plan sponsor's growth needs and risk constraints in mind and underpinned by our proprietary program of key risk analysis, risk management oversight, and daily asset monitoring.

### Investment objective

Parametric's LDI solutions seek to reduce the mismatch between plan assets and liabilities, and reach, or maintain, adequate funding.

To achieve this objective, both growth needs and risk constraints are considered. Additionally, the approach taken is customized depending on the plan's LDI glide path journey, from asset/liability alignment, and hedge ratio targeting, through to more complex hibernation strategies.

### Investment thesis

LDI has traditionally focused on fixed income assets, including cash bonds and derivatives, and their relationship to liabilities. Parametric's approach broadens that view to include return-seeking investments and exposure- management overlays.

Return-seeking assets likely have some relationship to credit spreads; exposure overlays preserve consistent adherence to target allocations at any point along an asset allocation glide path. Only by considering the entire plan can investors fully realize the transparency and efficiency of their LDI approach.

### Potential Benefits

#### FLEXIBLE, INNOVATIVE SOLUTIONS

Customization available across physical and overlay program. Pension plans can choose from standard or liability-aware benchmarks, with dynamic hedge ratio management available.

#### EXPERIENCE AND SCALE

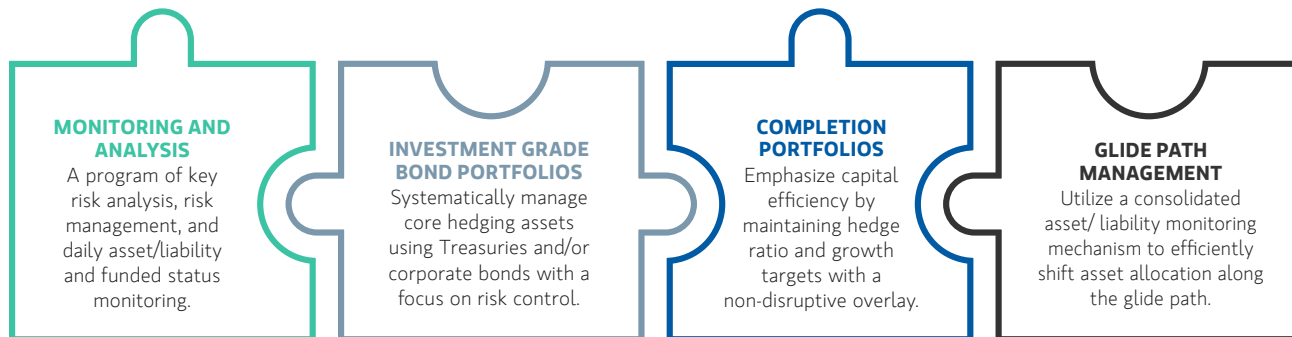
Parametric has over 30 years experience managing systematic, rules-based strategies. Our size, scale and proprietary technology enable us to deliver customized, cost effective LDI solutions for clients of all sizes.

#### RISK-BASED APPROACH

A risk-based analysis and monitoring program provides an in-depth view of assets and liabilities. Our focus on risk, or "winning by not losing," applies throughout the investment process.

## Portfolio Construction

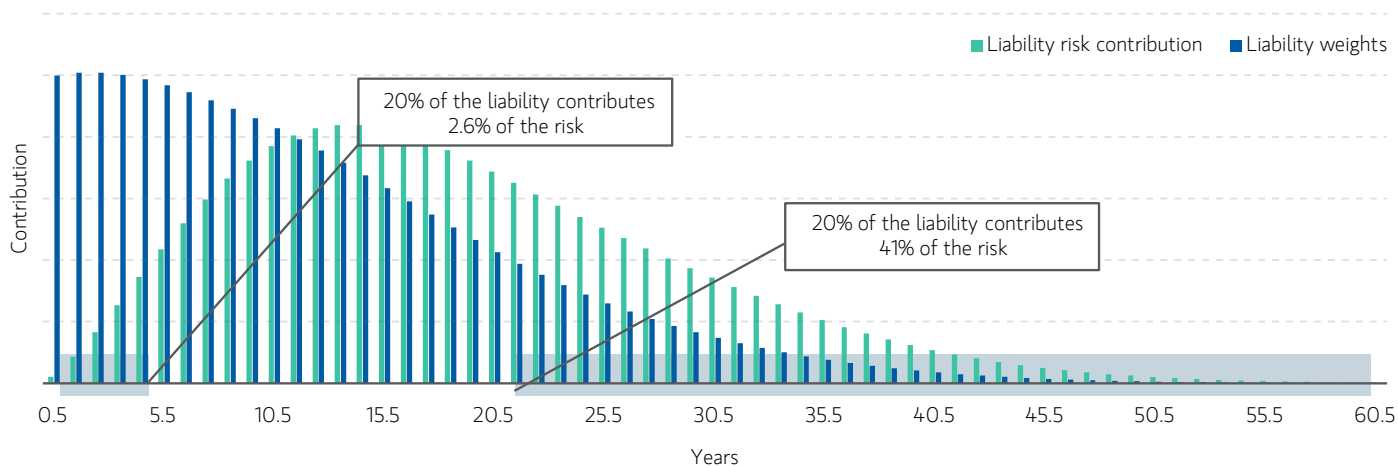
Parametric LDI solutions may provide comprehensive end-to-end expertise for all phases of the pension de-risking process. Our approach is comprised of four core implementation options. Whether using all or a subset, the portfolio is tailored and implemented using a rules-based, transparent investment process.



## Proprietary analysis program

Parametric's analytics platform is designed to highlight key pension risks to help achieve the plan's objectives. Parametric thoughtfully analyzes projected benefit cash flows to deconstruct liability risk.

**ILLUSTRATIVE EXAMPLE: LIABILITY CONTRIBUTION TO RISK BY CASH FLOW<sup>1</sup>**



## Portfolio Management Leadership



**DAVID PHILLIPS, CFA, ASA, EA**  
Director, Liability Driven  
Investment Strategies



**BERNIE SCOZZAFAVA, CFA**  
Director, Portfolio Management  
& Quantitative Research



**RICKY FONG, CFA**  
Managing Director,  
Investment Strategy

Investing in an LDI program involves risk. All investments are subject to loss. Please refer to the disclosures for additional information.

<sup>1</sup> For illustrative purposes only. Attributes do not represent an actual client of Parametric. It does not reflect the experience of any investor and should not be relied on for investment decisions. Actual portfolio holdings, returns and characteristics will vary for each client account. Sources: Parametric, Refinitiv, Bloomberg, ICE

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## Why Parametric?

Parametric is an organization built from 30 years of problem solving via expertise, collaboration and client focus. Our solutions blend creativity and diligence to deliver the ideas and execution today's institutional investors need to solve their unique challenges.

130+

Global markets where we operate

\$572B+

Assets under management

197

Investment Professionals

Information as of 9/30/24.

AUM includes overlay, fixed income, equity exposure and both discretionary and nondiscretionary assets of Parametric Portfolio Associates® LLC. Please refer to the disclosures for additional information regarding the Firm.

### DISCLOSURES

Parametric Portfolio Associates® LLC ("Parametric"), headquartered in Seattle, is registered as an investment advisor with the Securities and Exchange Commission under the Investment Advisors Act of 1940. Parametric is a leading global asset management firm, providing investment strategies and customized exposure management directly to institutional investors and indirectly to individual investors through financial intermediaries. Parametric offers a variety of rules-based investment strategies, including alpha-seeking equity, fixed-income, alternative and options strategies. Parametric also offers implementation services, including customized equity, traditional overlay and centralized portfolio management. Parametric is an affiliate of Morgan Stanley Investment Management, the asset management division of Morgan Stanley, and offers these capabilities through offices located in Seattle, Boston, Minneapolis, New York, and Westport. This material may not be forwarded or reproduced, in whole or in part, without the written consent of Parametric. Parametric and its affiliates are not responsible for its use by other parties.

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There is no assurance that the investment objective(s) will be achieved. All investments are subject to the risk of loss.

LDI programs utilize fixed income securities, including corporate bonds. Corporate debt securities are subject to the risk of the issuer's inability to meet principal and interest payments on the obligation and may also be subject to price volatility due to such factors as interest rate sensitivity, market perception of the creditworthiness of the issuer and general market liquidity. When interest rates rise, the value of corporate debt securities can be expected to decline. Debt securities with longer maturities tend to be more sensitive to interest rate movements than those with shorter maturities. Company defaults can impact the level of returns generated by corporate debt securities. An unexpected default can reduce income and the capital value of a corporate debt security. Furthermore, market expectations regarding economic conditions and the likely number of corporate defaults may impact the value of corporate debt securities.

Overlay programs utilize derivative instruments. Investing in a derivatives involves risk. Derivatives such as futures, swaps, and other investment strategies have certain disadvantages and risks. Futures require the posting of initial and variation margin. Therefore, a portion of risk capital must be preserved for this purpose rather than being allocated to a manager. Liquid futures may not exist for published benchmarks which may result in tracking error. Also, some intraperiod mispricing may occur. Swaps require periodic payments, may be less liquid than futures, and may have counterparty or credit risk. Some investment strategies require a cash investment equal to the desired amount of exposure.

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