

WHAT IS DEFINED DURATIONTM INVESTING?

An asset-liability matching process that helps investors better understand how their portfolios relate to their financial plan

DF DISCIPLINE
FUNDS



Banks and pensions have an inherent duration mismatch.

Banks lend long and borrow short. Pensions have sizable short-term liabilities funded via long-term assets.

Banks and pensions manage their portfolios to align assets and liabilities across time.

Retail investors also have an inherent duration mismatch.

We accrue assets today with the hope of spending them into an uncertain future.

But retail investors align assets to style boxes and factors, not time horizons **because that's what investment managers sell them.**

THE SMARTEST INSTITUTIONS INVEST BASED ON ASSET- LIABILITY MATCHING.

WHY DON'T RETAIL INVESTORS?

THE PROBLEM

**GOOD FINANCIAL
PLANNING IS...**

GOALS-BASED

**A MULTI-TEMPORAL
PROCESS**

**FOCUSED ON LIABILITIES
TO ENSURE
CORRESPONDING ASSETS
CAN FUND NEEDS**

VS

**MODERN INVESTMENT
MANAGEMENT IS...**

PERFORMANCE-BASED

**A SHORT-TERM
PROCESS**

**FOCUSED AROUND STYLE
BOXES TO SELL
PERFORMANCE AND JUSTIFY
HIGH FEES**

HOW MAIN STREET THINKS

Time Horizons

Clients think in time horizons. "When can I retire?" "Can we afford a bathroom remodel next year?"

Consumption Needs

Investors want to know how their assets are helping them achieve specific time-based goals.

Goal-Based Language

Clients speak about weddings, retirement, , children's tuition, healthcare, etc.

VS

HOW WALL STREET THINKS

Style Boxes

Wall Street thinks in factors and styles like "growth", "value", "large cap" and "small cap".

Risk Optimization

Wall Street builds portfolios to optimize a theoretical risk/reward in the pursuit of "alpha" in order to rationalize high fees and active management.

Theoretical Language

Wall Street speaks in opaque language: Alpha, Beta, Sharpe, Standard Deviation.

THE SOLUTION

**FINANCIAL
PLANNING**

**INVESTMENT
MANAGEMENT**



GOALS AND PLANNING-BASED



**MULTI-TEMPORAL
PROCESS**



**TIME HORIZON
ALIGNED TO PLAN**



**DEFINED DURATION[®]
INVESTING**

THE PAST

Markowitz & Mean
Variance Optimization



THE PRESENT

Factor Investing, Beta
Optimization &
Active vs Passive



THE FUTURE

Planning-Based
Asset-Liability Matching

THE EVOLUTION OF ASSET MANAGEMENT

“

Asset-liability matching is the way
financial planning will be done in
the future. - Cullen Roche

”



WHAT EXACTLY IS THE DEFINED DURATIONTM ?



Duration as the “point of indifference” relative to sequence of return risk.

- We calculate defined duration using expected real returns and potential max drawdowns to quantify the potential time horizon over which an instrument can be expected to generate a reasonable sequence of returns.
- For example, if global stocks are expected to generate 6.2% with 2.3% expected inflation then a -50% downturn would result in a Defined Duration of 18.12 years.
- In doing so we can quantify the expected time horizons of specific assets and then match them to expected liabilities thereby expanding ALM strategies beyond bonds.

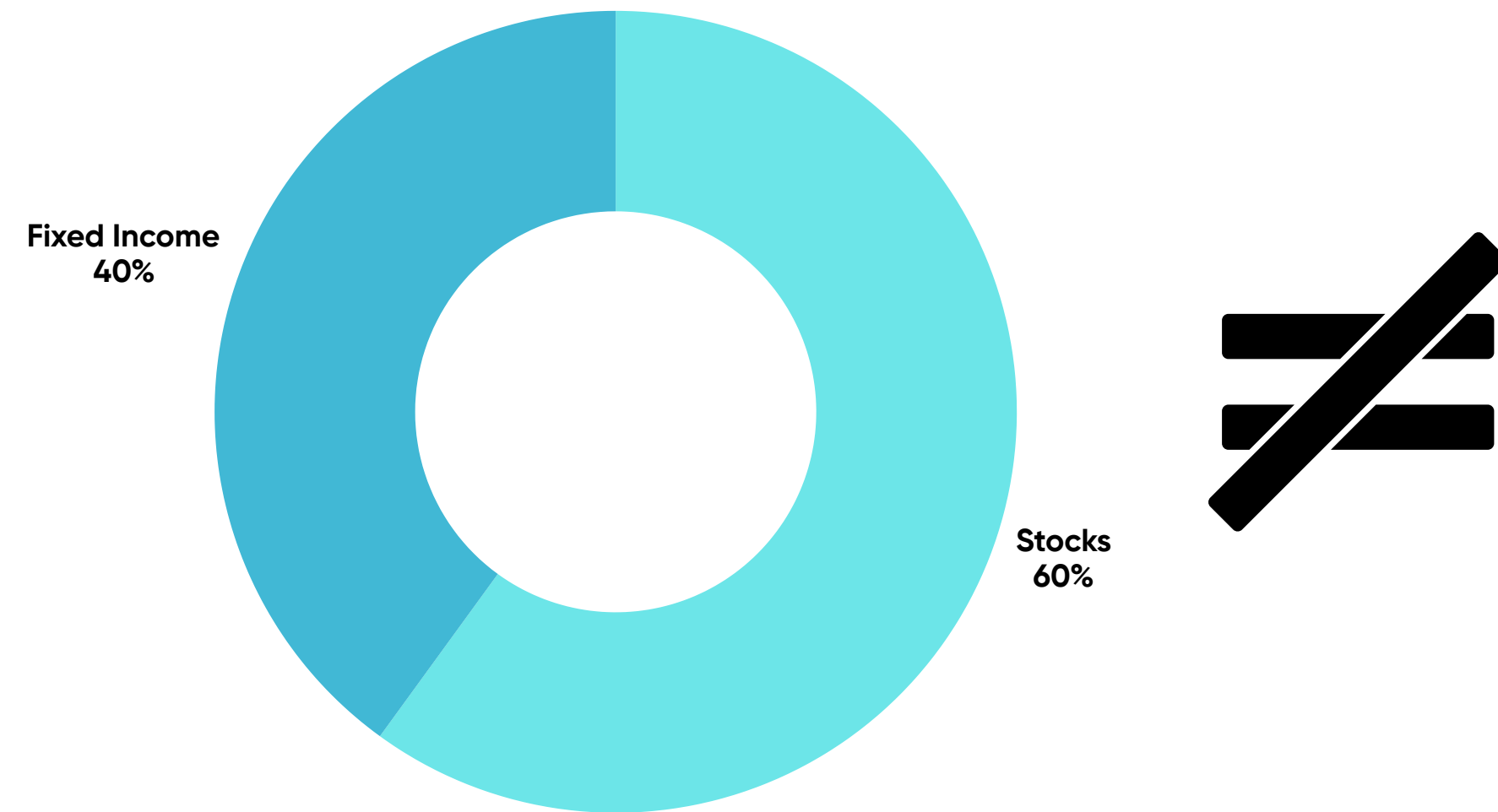
WHAT EXACTLY IS THE DEFINED DURATIONTM?

Bonds are poor long duration instruments. By quantifying the expected time horizon of stocks, multi-asset instruments and alternatives we can expand ALM strategies beyond bonds and improve clarity around asset performance relative to liability needs.

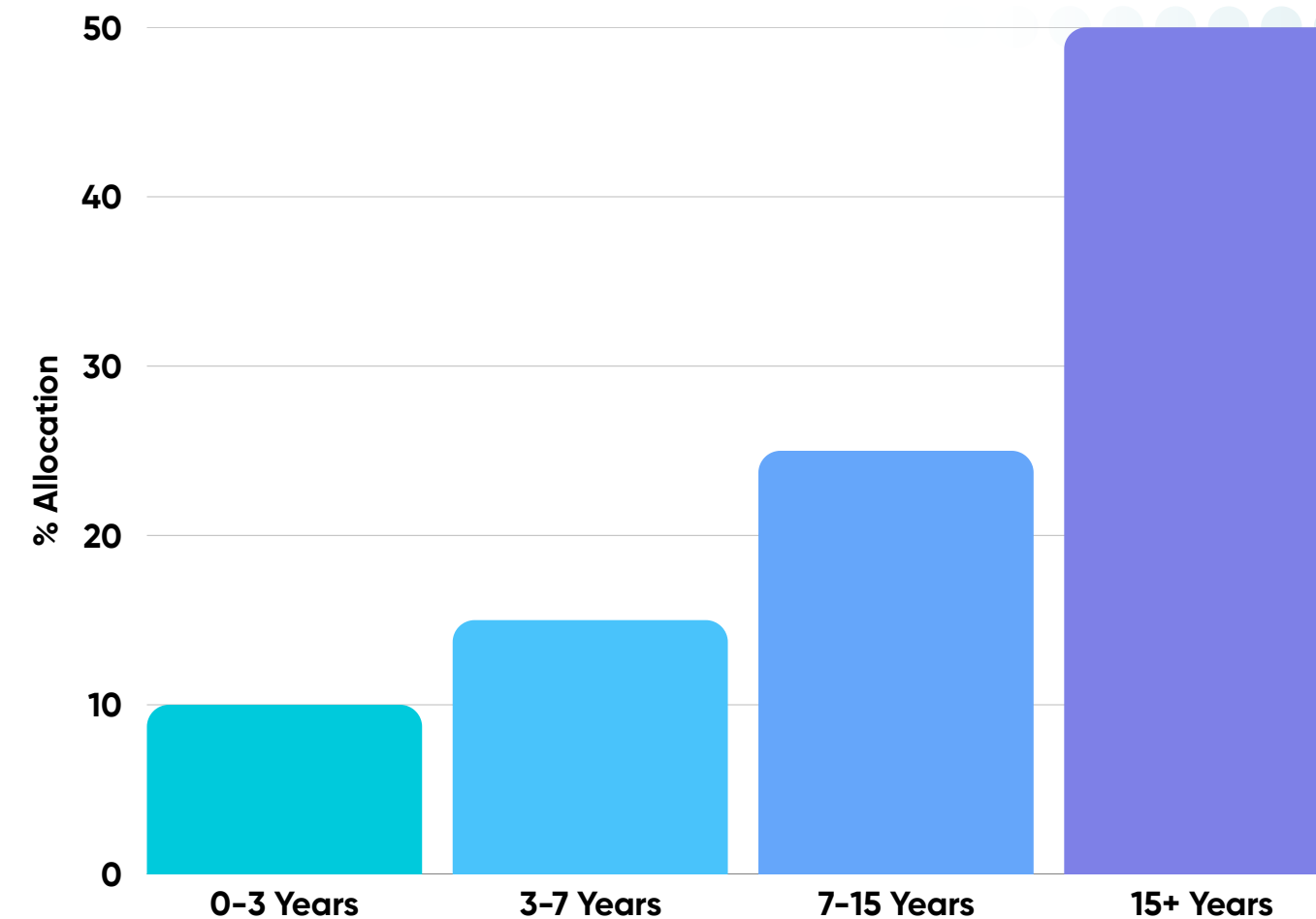


WHAT EXACTLY IS THE DEFINED DURATIONTM?

Asset diversification isn't the same thing as temporal diversification.



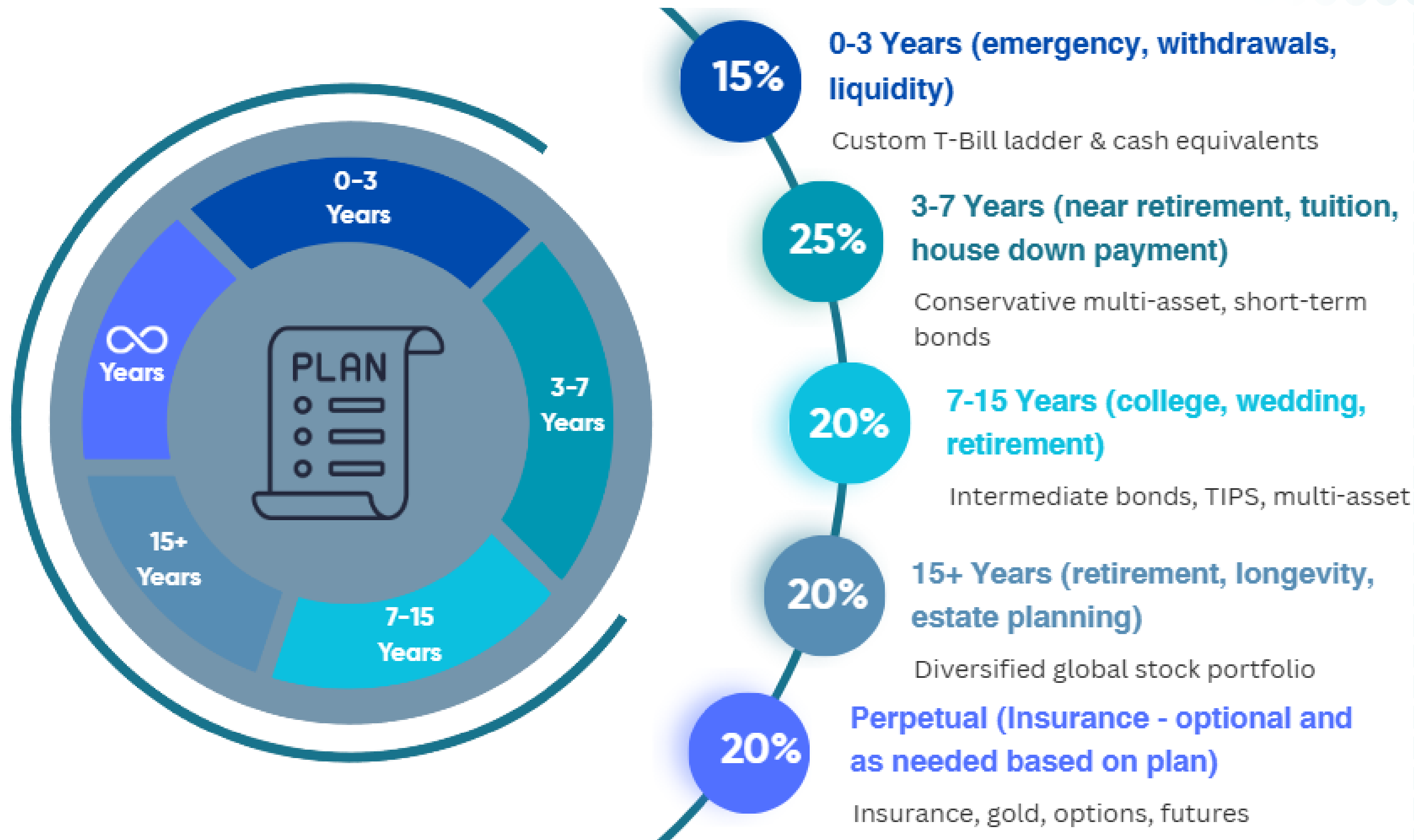
**Investor A – Asset
Diversification
Only**



**Investor B – Has the same asset
diversification AND greater
temporal diversification**

WHAT EXACTLY IS THE DEFINED DURATIONTM?

By quantifying the time horizons of the assets we can then customize portfolios and build a portfolio that expands traditional fixed income only ALM strategies.



THE BENEFITS OF TEMPORAL DIVERSIFICATION

1

Customized asset allocation that can be matched to specific liabilities.

2

Reduced sequence of returns risk through greater funding optionality across time.

3

Better behavior through superior understanding of the probability of outcomes and roles of assets relative to a financial plan.

KEY COMPONENTS OF THE DEFINED DURATIONTM METHOD



01

Start with the financial plan

The core goal is to quantify the most predictable expenses and liabilities. That means rigorous quantification of short-term liabilities.

02

Quant-based Risk Profiling and Asset Matching for Clients

Your risk profile isn't a subjective behavioral questionnaire. It's a balance sheet vs income statement analysis!

03

Match the assets to the liabilities

A good ALM process will systematically match the right assets to the right liabilities resulting in a portfolio that is diversified across assets AND time horizons.

KEY BENEFITS OF DEFINED DURATIONTM INVESTING



A Superior and Clearer Process

- Comprehensive planning process
- Quant-based process. No subjective questionnaires
- A structured framework and work-flow
- Clear matching of assets to financial needs and goals

Defined Goals and Maintenance

- Performance matched to your goals, not generic market benchmarks
- Lower costs, lower taxes and lower turnover
- Clarity about why you own what you own
- Better behavior knowing your assets are aligned to specific goals

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