



COVID-19 IMPACT ON A PENSION PLAN'S LIQUIDITY

IT'S TIME TO PLAN NOW

May 20, 2020 | 10:00AM CDT

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& Consulting**

~\$35 billion

**Fiduciary
Management
(OCIO)**

\$15.6 billion

Derivatives

\$29.9 billion

**Asset
Management**

\$4.7 billion

Today's speakers



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Today's agenda:

- Why liquidity, cash flow, and funded status are important
- Example
- Action items
- Q&A



Impact of current market environment



ECONOMY

S&P forecasts 2.4% drop in 2020 global GDP because of coronavirus

INVESTING | April 14th, 2020

Past Bear Market Strategies No Comfort for DB Plans Right Now

Pension plan consultants are tweaking recommendations for DB plan sponsors during the unprecedented volatility created by the coronavirus pandemic.

April 29, 2020 Funding ratio for state plans
lowest in 30 years – Wilshire

**Underfunded public plans facing a new
round of woes**

**Public Pension-Fund Losses Set
Record in First Quarter**

Outside the Box

Opinion: Coronavirus will make
America's cities feel the pressure of
pension debt

Published: April 20, 2020 at 3:27 p.m. ET

By Jen Sidorova

Insolvent pension plans could drag some cities into bankruptcy

**U.S. Recession Model at
100% Confirms Downturn Is
Already Here**

Surge in Unemployment Claims Leaves No Doubt U.S.
in Recession

What's the market environment causing?

Stress on Revenue and Budgets

Potential Layoffs and Retirements

Volatile Pension Funded Ratios

Apprehension about Potential Further Losses

Can lead to negative cash flow and a potential liquidity crunch

- Benefit Payments can rise quickly and unexpectedly
 - DROP payments and lump sums
- Liquid assets may be stressed when cash is needed
- Quick decisions may not be able to be made
 - Will result in normal rebalancing or IPS default procedure
- May take time if you want to make asset allocation changes
 - Reduce alternatives portfolio
 - And/or, change asset managers
 - Add derivatives

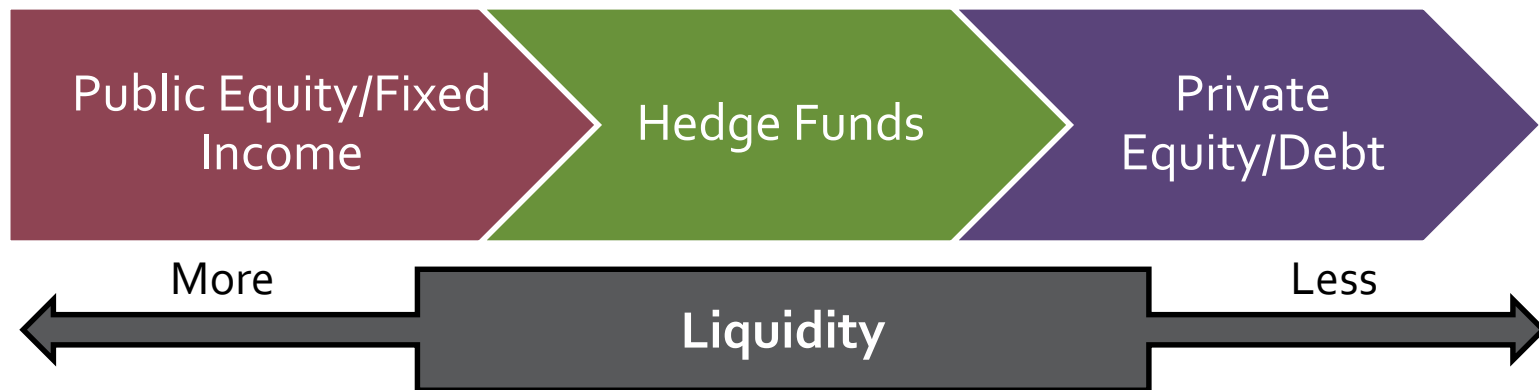
Why is liquidity important?



Liquidity often gets overlooked in planning, but is a critical component, especially in distressed situations

What is liquidity?

Per *Investopia*: Liquidity is the ease with which an asset, or security can be converted to cash without impacting its market price

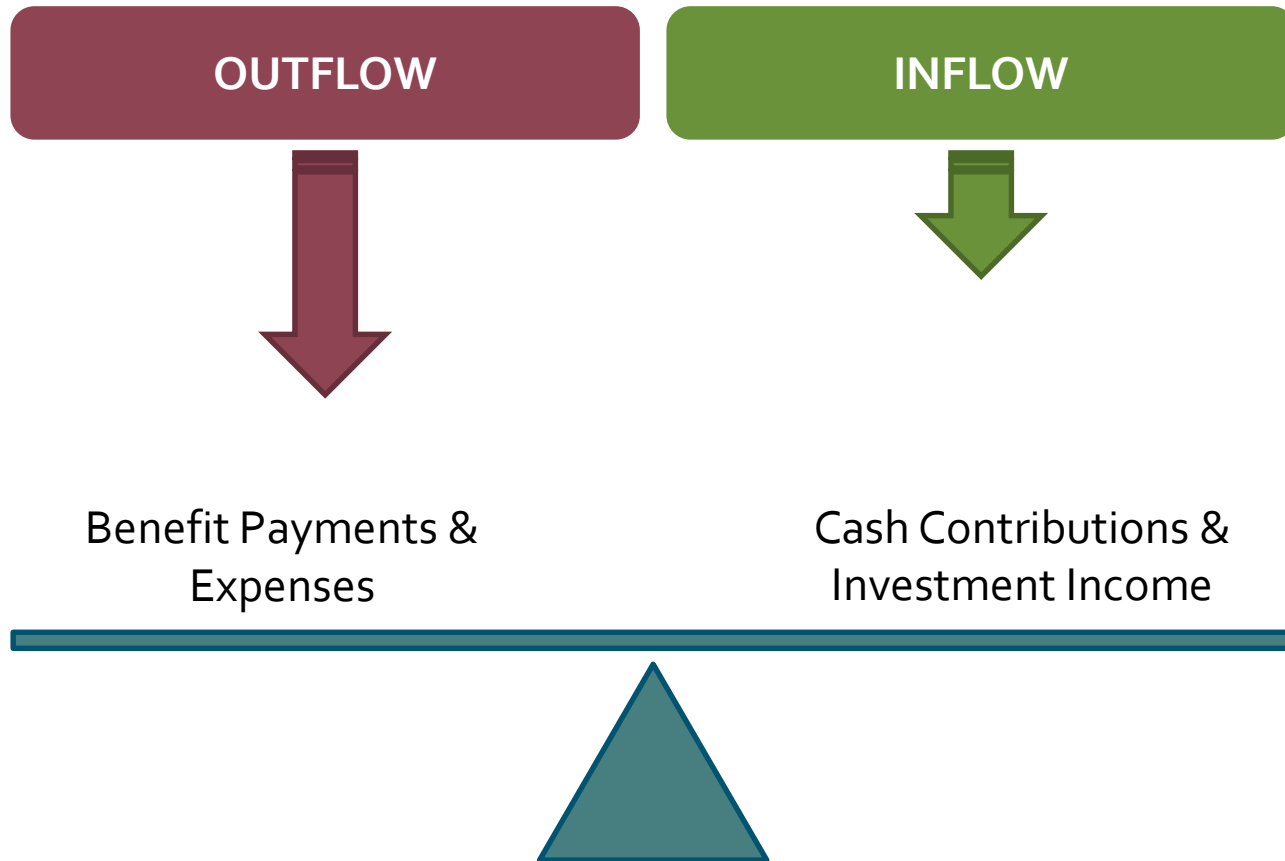


Highly liquid (<1 month) items typically include; cash, ETFs, mutual funds, public equity, public fixed income

Less liquid (1 month – 1 year) items typically include alternative investments such as hedge funds

Illiquid (1-10 years) items typically include private equity, private debt, partnerships, etc.

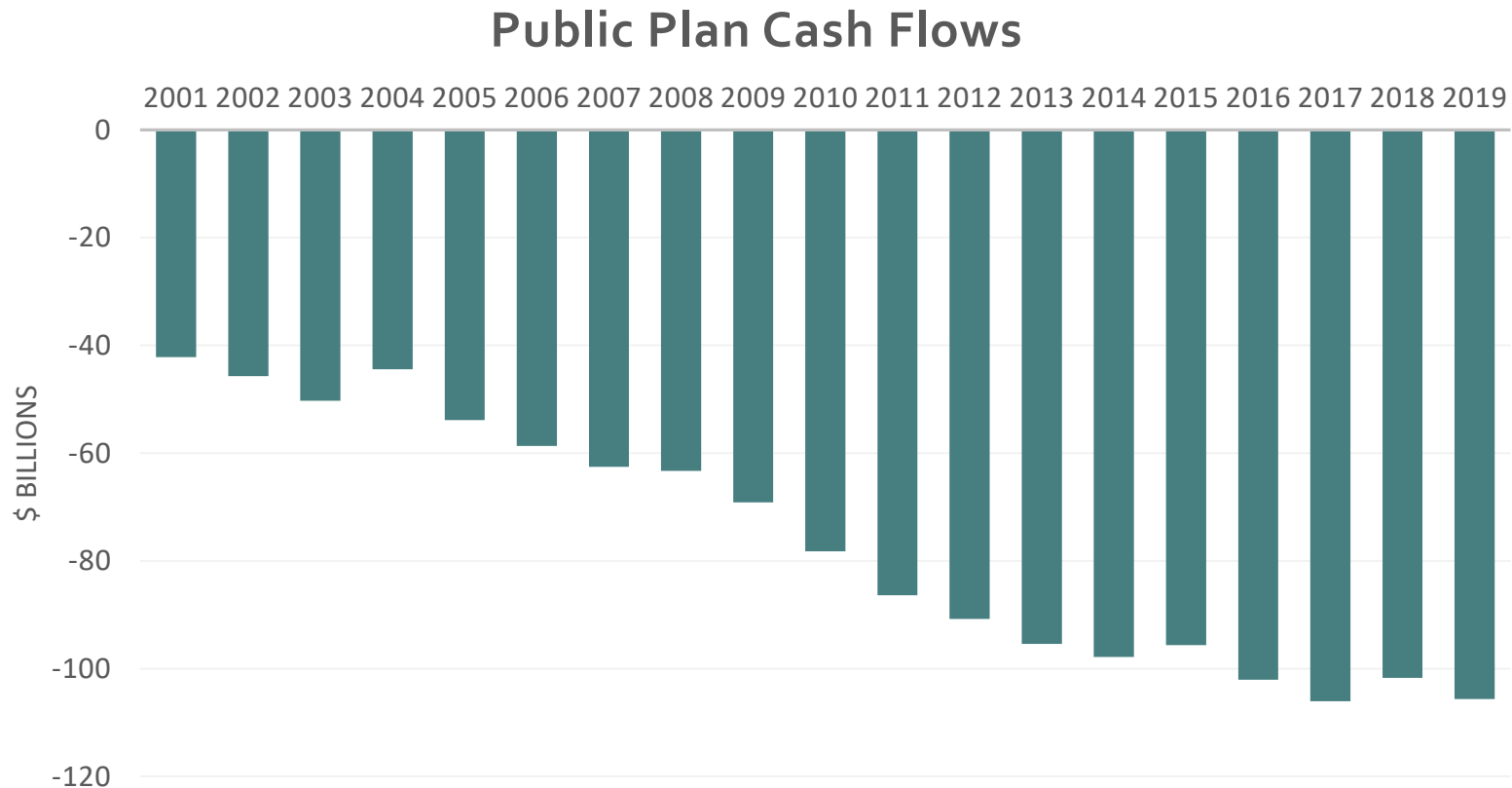
What is a liquidity crunch?



COVID19 impact will most likely increase benefit payments and decrease contributions

Why has liquidity mattered?

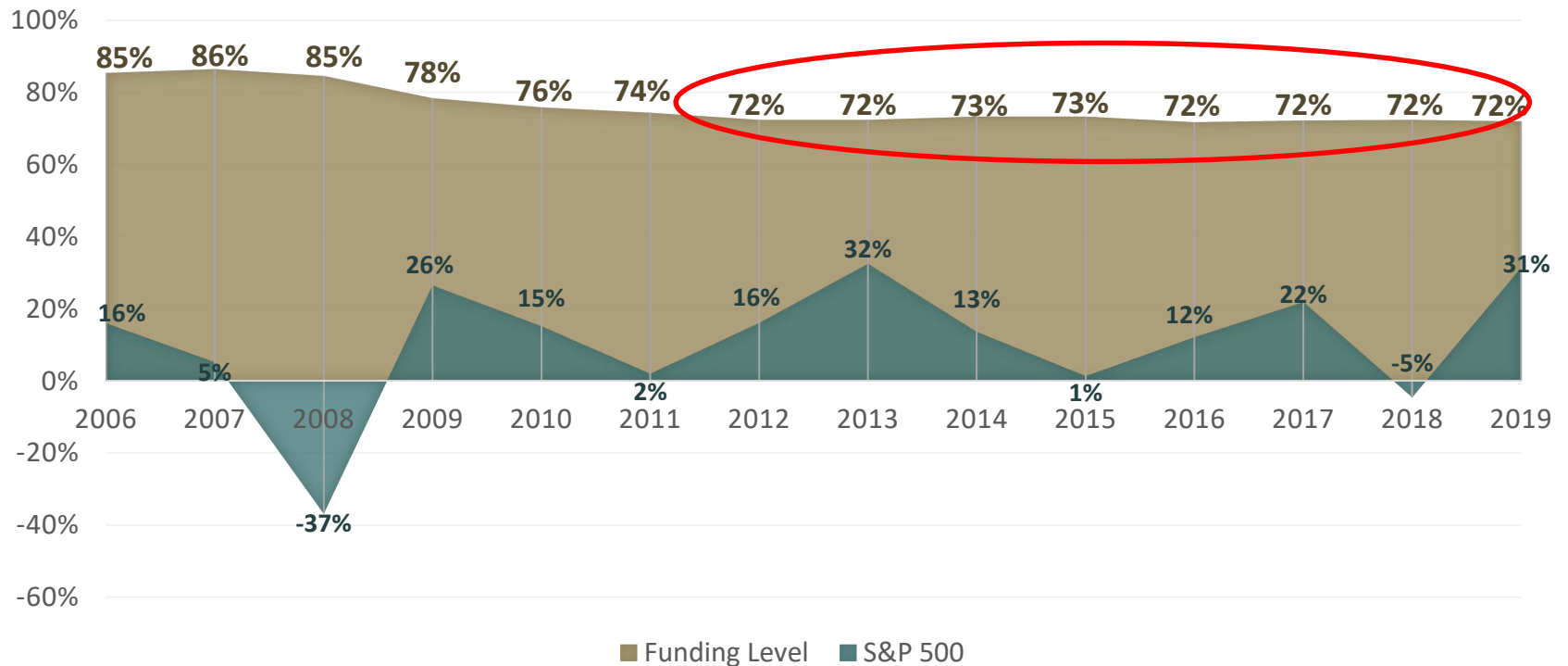
One major factor for lack of funded status improvement has been negative cash flow, causing plans to sell assets in both rising and falling markets



Why has liquidity mattered?

The average public pension plan has not recovered to pre-financial crisis funding status levels despite strong equity market returns of the last decade

Average Public Plan Funding Level



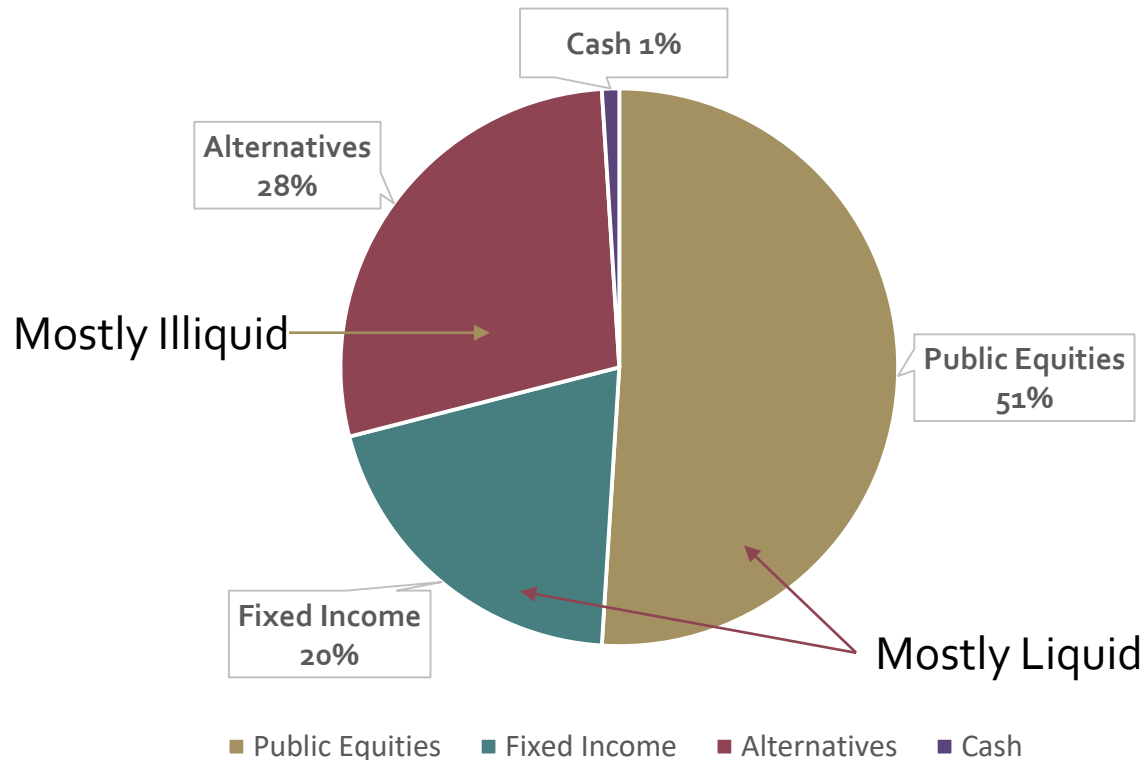
Positive cash flow matters

1. Negative cash flows require plan sponsors to raise liquidity (sell investments) to meet obligations
2. Timing and amount of outflow is predictable for regular benefit payments, but not lump sums
3. Selling assets requires an investment decision:
 - Rising markets – selling equity will dampen future returns
 - Falling markets – selling fixed income could increase risk and downside given overweight to equity and alternative investments
4. Most sponsors will use liquidity management to rebalance the portfolio to long term asset allocation as a default

Raising liquidity can be challenging

However, most plans have illiquid assets that can't be easily liquidated or reallocated in a timely fashion

Average Texas Public Plan Asset Allocation



Impact of funded status

- In addition, the plan's funded status impacts dollar liquidity
- The lower a plan's funded status means the greater percentage of assets that benefit payments represent:
 - Benefit payments will continue to grow and may accelerate
- Thus if liquid assets shrink, liquidity becomes bigger concern

Annual Benefit Payments \$8M				
	Start Period		15% Equity Drop	
	<u>Percentage</u>	<u>Dollar Value</u>	<u>Percentage</u>	<u>Dollar Value</u>
Fixed Income	20%	20	22%	20
Public Equity	50%	50	46%	42.5
Alternatives	30%	30	32%	30
Total Assets		100		92.5
Percentage of liquid assets		11%		13%

Raising liquidity: additional considerations

- Liabilities are not immediately impacted by market movements
- Lowering the dollar amount of fixed income below the desired target on a dollar basis can increase the dollar risk to the plan
- Based on the average Texas asset allocation, if a \$100M plan was 70% funded with 20% in fixed income it would have \$14M in fixed income
- However, after an equity downturn of 20% (and no change in fixed income levels), the amount of fixed income is still \$14M, but now it's 23% of total portfolio
- Rebalancing fixed income to 20% will most likely increase dollar risk to plan

What should you do?

Plan for your liquidity needs

Review your asset allocation and plan design

Develop a market view

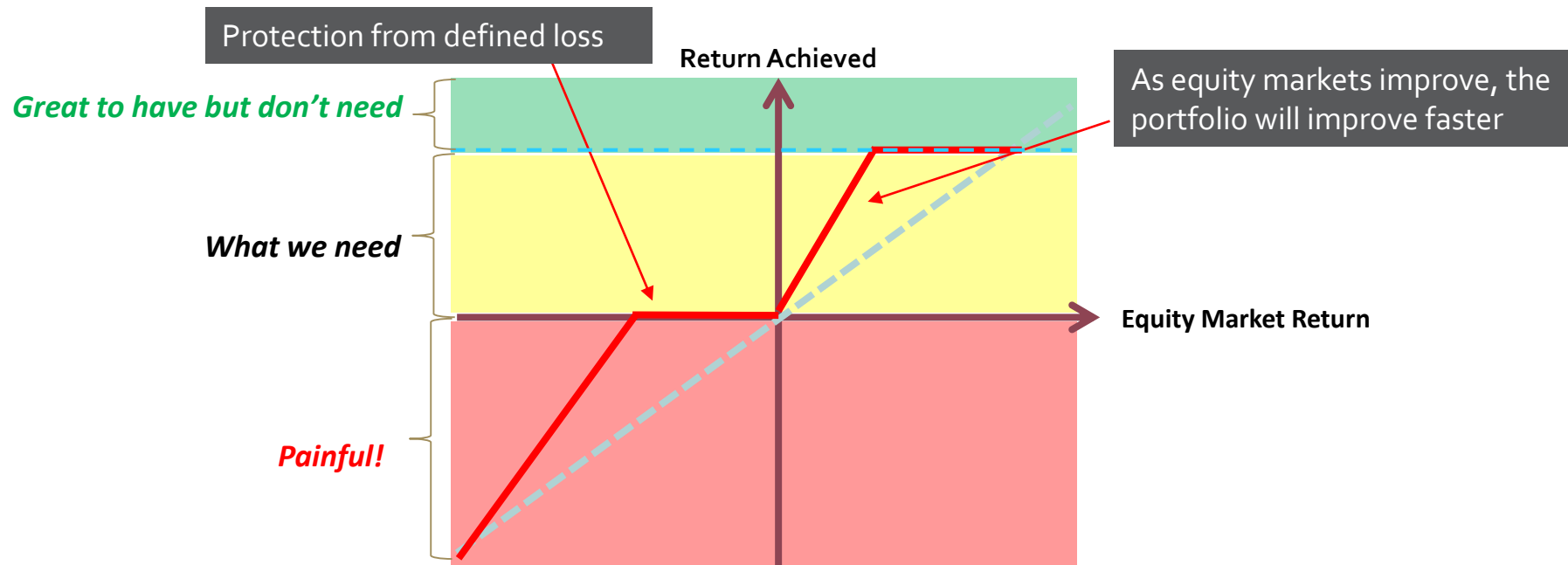
Incorporate liquidity needs with rebalancing decisions and market views

If liquidity will be a concern, develop action plan

- Our market research indicates we are in a downturn phase of the market cycle
 - Credit conditions are relatively weak
 - Equity valuations, especially U.S. are high vs. historical norms
- We expect a volatile market with a downward focus
 - Federal banks and governments have stepped up meaningfully to support the economy
 - Fundamental long-term improvements in economy may rely on science
- Until COVID19 is under control, volatility may last for longer than expected or experienced in recent history
 - 'The laws of finance don't trump the laws of physics'

Expressing a view with derivatives

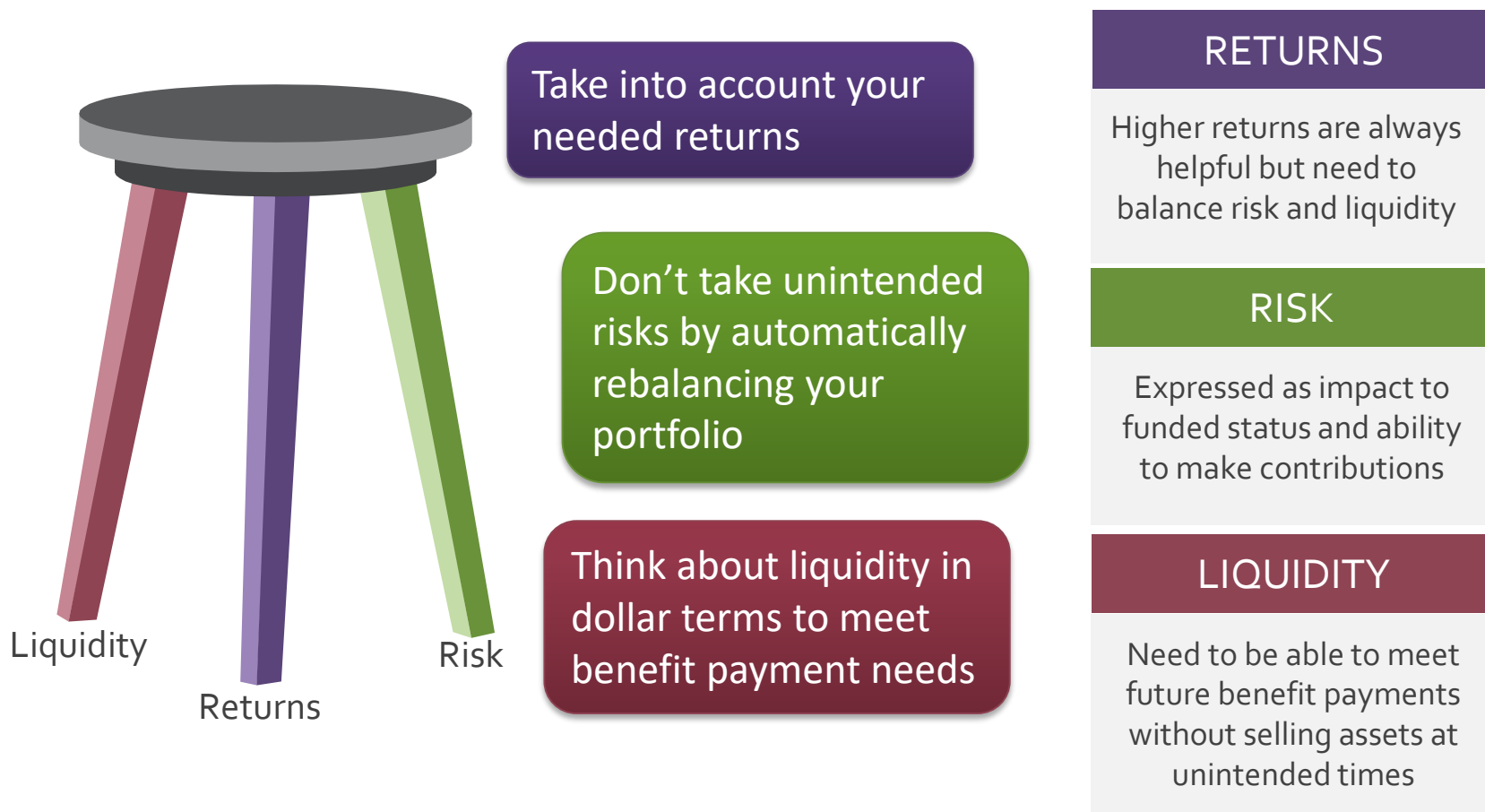
- Using derivatives allows Trustees to maintain current asset allocation exposures across markets while also being able to express an investment view
- In addition, using a derivatives contract can help provide both equity or fixed income exposure as well provide additional liquidity
- In designing a structure a sponsor can express a view, one such example is:



Key take-aways



Liquidity is a critical element to a plan's healthy future



You need to have these conversations now

Q&A



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EXPERIENCE

- We have been successfully helping clients manage risk, return, and liquidity since 2003

EXPERTISE

- Our significant market experience means clients have achieved value

EFFECTIVE

- We make it easy for clients and efficient for their advisors

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