

---

# Impact on Funded Status

---

Pension Strategy & Analytics | June 25,2020

# Funded Status Update (YTD through 6/24/2020)

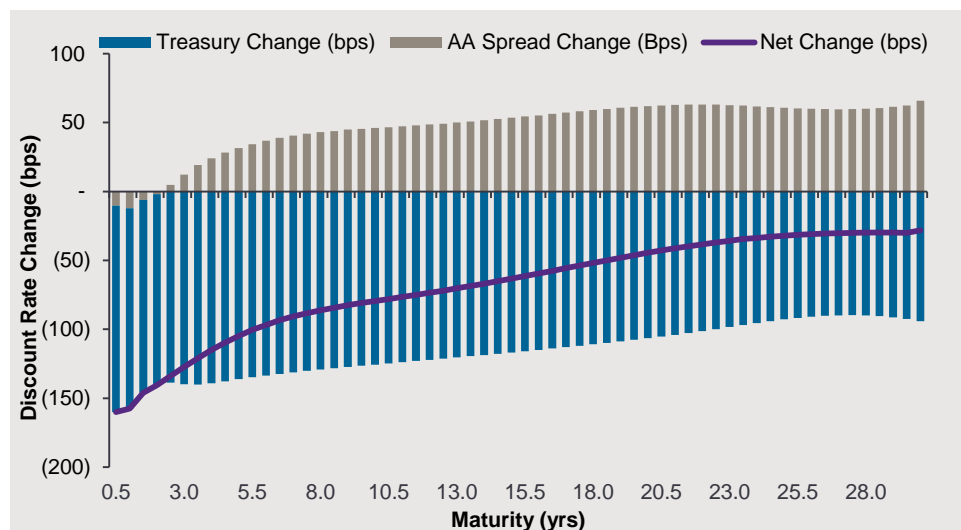
## Impact on Sample Corporate Pension Plan\*

	12/31/2019	YTD Impact	6/24/2020
Assets (\$mm)	870.0	+2.4%	891.2
Liabilities (\$mm)	1,000.0	+7.2%	1,072.4
Funded Status (%)	87.0%	<b>-3.9%</b>	83.1%

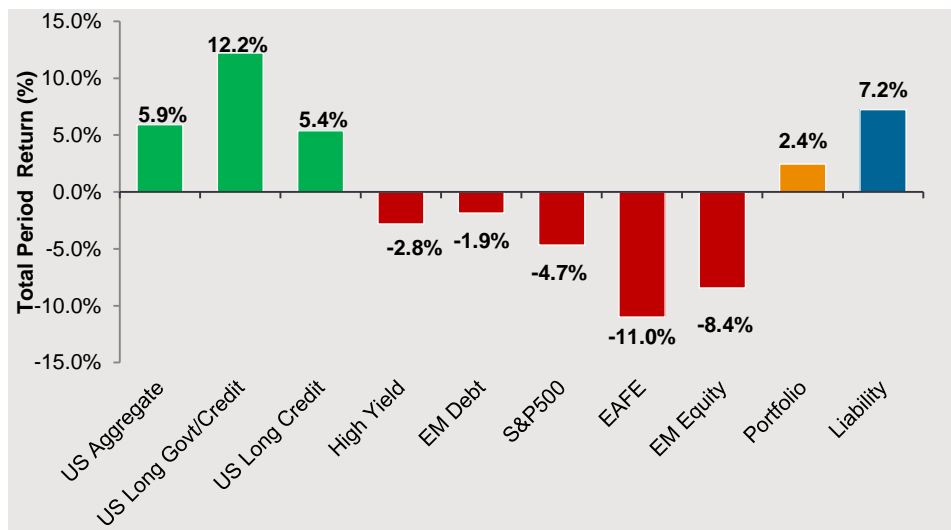
\*Sample Plan: Liability Duration of 13.0yrs and the following asset allocation: 25% S&P500, 15% EAFE, 5% EM Equity, 45% US Long Gov/Credit, 5% US Aggregate, 2.5% US High Yield, 2.5% EMD. Analysis assumes no rebalancing. **Interest Rate Hedge Ratio = 50%**

- The sample corporate plan funded status **fell 3.9%** from 12/31 through 6/24/2020
- Lower treasury rates, offset by wider spreads led to a **~54bps decrease** in discount rates over the period
- Year-to-date, assets have returned **+2.4%** versus a **+7.2%** liability return
  - More de-risked plans with less public equity exposure would see more moderate funded status decreases but results will vary depending on the hedge portfolio credit exposure

## Pension Discount Curve Change



## Asset Class Returns

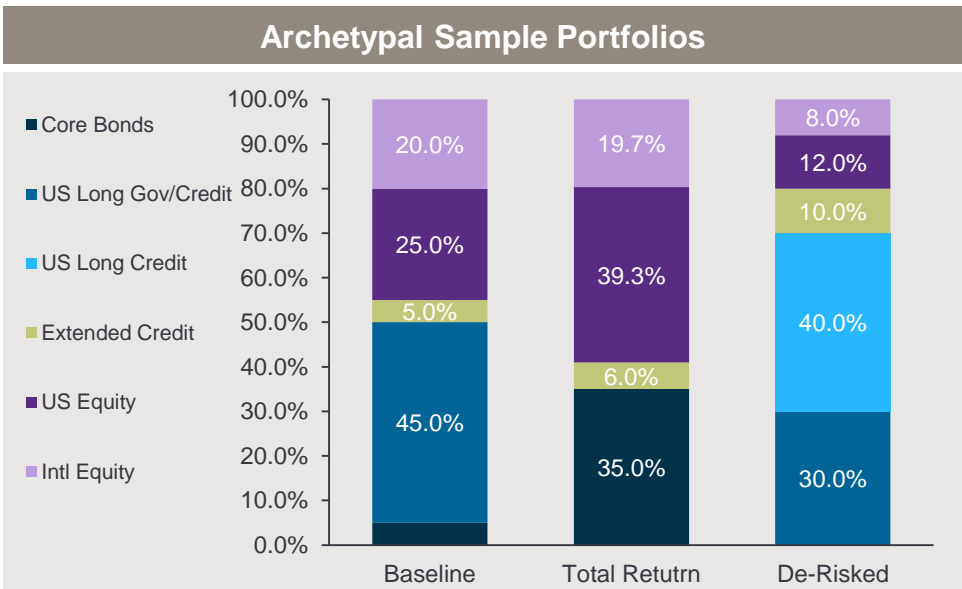
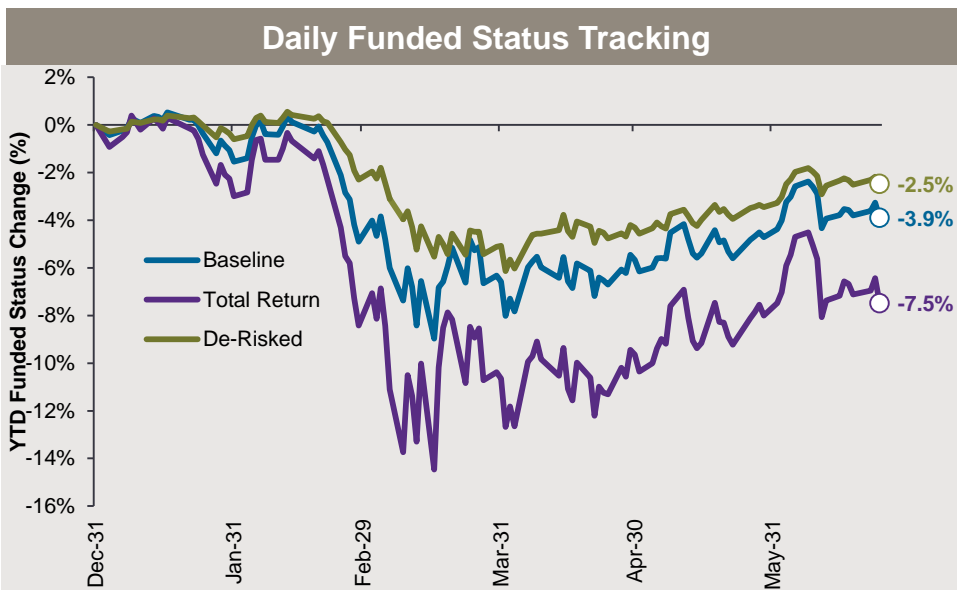


The data/charts/graphs throughout this presentation are FOR ILLUSTRATIVE AND DISCUSSION PURPOSES ONLY. Source: J.P. Morgan Asset Management Inc., Bloomberg, Barclays Live, Morgan Markets

# Archetypal Sample Plans

Portfolio	Hedge Ratio (%)	YTD Funded Status Change (%)
Baseline	50%	-3.9%
Total Return	15%	-7.5%
De-Risked	75%	-2.5%

- In contrast to our baseline portfolio example:
  - A more **De-Risked** portfolio would have fared better from lower public equity exposure and protection from falling interest rates. However, a higher exposure to corporate credit in the hedge portfolio has caused funded status deterioration
  - A more **Total Return Oriented** portfolio would have fared worse, with similar public equity levels but less duration exposure in the fixed income to act as a ballast in volatile markets



The data/charts/graphs throughout this presentation are FOR ILLUSTRATIVE AND DISCUSSION PURPOSES ONLY. Source: J.P. Morgan Asset Management Inc., Bloomberg, Barclays Live, Morgan Markets

# Impact of Rebalancing

## YTD Funded Status Change as of 6/24/2020

	Rebalancing Frequency						
	None	Daily	Monthly	Quarterly	Quarterly - 1day	Quarterly - 2day	Quarterly - 7day
<b>Baseline</b>	-3.9%	-3.1%	-3.8%	-3.3%	-3.3%	-3.2%	-3.0%
<b>Total Return</b>	-7.5%	-6.6%	-7.3%	-6.9%	-6.9%	-6.8%	-6.1%
<b>De-Risked</b>	-2.5%	-1.9%	-2.4%	-2.1%	-2.1%	-2.1%	-2.0%

Quarterly-Xday rebalancing policy executes the rebalance X trading days prior to the quarter end rather than precisely on the quarter end

- The preceding analysis assumes no rebalancing and allows asset allocation to drift
- The table on the left calculates YTD funded status change under a range of different rebalancing policies
- The colored heatmap ranks rebalancing policies for each portfolio from best to worst YTD funded status performance

The data/charts/graphs throughout this presentation are FOR ILLUSTRATIVE AND DISCUSSION PURPOSES ONLY. Source: J.P. Morgan Asset Management Inc., Bloomberg, Barclays Live, Morgan Markets

# J.P. Morgan Asset Management

---

This document is a general communication being provided for informational purposes only. It is educational in nature and not designed to be a recommendation for any specific investment product, strategy, plan feature or other purpose. Any examples used are generic, hypothetical and for illustration purposes only. Prior to making any investment or financial decisions, an investor should seek individualized advice from a personal financial, legal, tax and other professional advisors that take into account all of the particular facts and circumstances of an investor's own situation.

The views contained herein are not to be taken as advice or a recommendation to buy or sell any investment in any jurisdiction, nor is it a commitment from J.P. Morgan Asset Management or any of its subsidiaries to participate in any of the transactions mentioned herein. Any forecasts, figures, opinions or investment techniques and strategies set out are for information purposes only, based on certain assumptions and current market conditions and are subject to change without prior notice. All information presented herein is considered to be accurate at the time of production. This material does not contain sufficient information to support an investment decision and it should not be relied upon by you in evaluating the merits of investing in any securities or products. In addition, users should make an independent assessment of the legal, regulatory, tax, credit and accounting implications and determine, together with their own professional advisers, if any investment mentioned herein is believed to be suitable to their personal goals. Investors should ensure that they obtain all available relevant information before making any investment. It should be noted that investment involves risks, the value of investments and the income from them may fluctuate in accordance with market conditions and taxation agreements and investors may not get back the full amount invested. Both past performance and yield are not a reliable indicator of current and future results.

J.P. Morgan Asset Management is the brand for the asset management business of JPMorgan Chase & Co. and its affiliates worldwide.

This communication is issued by the following entities; in Canada for institutional clients' use only by JPMorgan Asset Management (Canada) Inc., and in the United States by JPMorgan Distribution Services Inc. and J.P. Morgan Institutional Investments, Inc., both members of FINRA; and J.P. Morgan Investment Management Inc.

For U.S. only: If you are a person with a disability and need additional support in viewing the material, please call us at 1-800-343-1113 for assistance.

© 2020 JPMorgan Chase & Co. All rights reserved.