

Healthcare system reduces complexity, reduces volatility, improves pension funded status

THE ORGANIZATION

A non-profit healthcare system providing a wide array of services including several hospitals, an ambulatory care center, and multiple community health and long-term care centers. Management oversees multiple asset pools, including board designated assets, a frozen pension plan and a foundation. The System is financially strong and is considering acquisitions. Management and the Investment Committee realize the need to align investment strategy of their multiple asset pools with the overall financial goals of the System.

Challenge 1: Volatility

The healthcare system's primary investment challenge in recent years has been market volatility. Volatility within the board designated assets had negatively impacted the balance sheet. Market and interest rate volatility in the pension plan also created an unexpected level of unfunded liabilities. The uncertainty resulting from the volatile market environment created multiple challenges in managing the balance sheet and debt-coverage ratios.

Prior to the global financial crisis, the healthcare system managed its board designated, pension, and foundation assets to a total return target across all asset pools. This resulted in investment portfolios that were nearly identical across all three pools.

Managed in this "one size fits all" manner, the investment portfolios produced attractive investment returns, but the board designated assets experienced more volatility than the investment committee desired, and without a liability-driven investment program, the pension plan's assets did not move in concert with plan liabilities.

Challenge 2: Complexity

The complexity of establishing multiple objectives for individual asset pools (and then managing to those objectives) was daunting, even as a means of reducing overall portfolio volatility. Delegating many of the operational tasks to a co-fiduciary (Russell Investments) allowed the healthcare system to simultaneously increase the sophistication of their investment program and ease management's administrative burden. Delegated tasks included portfolio analysis, manager research and oversight, investment implementation, and performance reporting, to name a few.

With the program’s operational and administrative complexity reduced through delegation to Russell Investments, the healthcare system was able to focus on establishing the following objectives for the individual asset pools:

ASSET POOL	OBJECTIVES
LONG-TERM POOLS	<ul style="list-style-type: none"> › Manage volatility and maintain credit rating › Ensure ability to fund short-term and long-term projects › Achieve investment returns to meet or exceed cost of capital
PENSION PLAN	<ul style="list-style-type: none"> › Improve funded status of pension plans › Understand pension within context of plan sponsor financials › Manage volatility of funded status and contributions
FOUNDATION	<ul style="list-style-type: none"> › Support non-profit mission and operating budget › Meet spending requirements and manage liquidity › Manage volatility and maintain purchasing power

Delegating many of the operational and investment tasks to a co-fiduciary allowed the healthcare system to simultaneously increase the sophistication of their investment program and ease management’s administrative burden.

Investment solutions – A new approach

Long-term pools: board designated assets

With new investment objectives now clearly defined for the Board Designated asset pool, Russell Investments and the investment committee targeted minimizing volatility of the assets to create a return stream that would be more in line with the net cost of capital for the healthcare system. Together, we explored several strategies for reducing the portfolio’s investment risk, including:

- 1. Increased diversification** of asset classes, including reduced home country bias and an increased allocation to hedge funds, high yield bonds, and real estate strategies
- 2. Reduced exposure to “risky” assets** through an increased allocation fixed income and other less volatile assets
- 3. Reduced volatility of “risky” assets** through the addition of investment strategies with better downside protection characteristics, such as defensive equity
- 4. The addition of dynamic risk-hedging strategies** that can more effectively adapt to rapidly shifting risk-on/risk-off market environments

After extensive analysis, the committee settled on two primary options for consideration. The first portfolio (Portfolio A) was designed to reduce volatility without sacrificing return. Portfolio A reduced the volatility by 30%, from 9.9% to 7.4%, while matching the current expected return as can be seen in Exhibit 1. The second option (Portfolio B) that the committee considered reduced volatility even further at the expense of some growth, but was still designed to achieve an investment return that would cover the net cost of capital, plus 50 basis points (0.5%) of cushion. Portfolio B had an expected return of 6%, but further reduced the expected volatility to 5.9%. In addition, both Portfolio A and Portfolio B reduced the one year, one in twenty downside scenario (95% VaR) by 41% and 56% respectively (from nearly 13% to 7.6% and 5.7%) as can be seen in Exhibit 2.

EXHIBIT 1: DISTRIBUTION OF 10-YEAR EXPECTED NOMINAL RETURNS

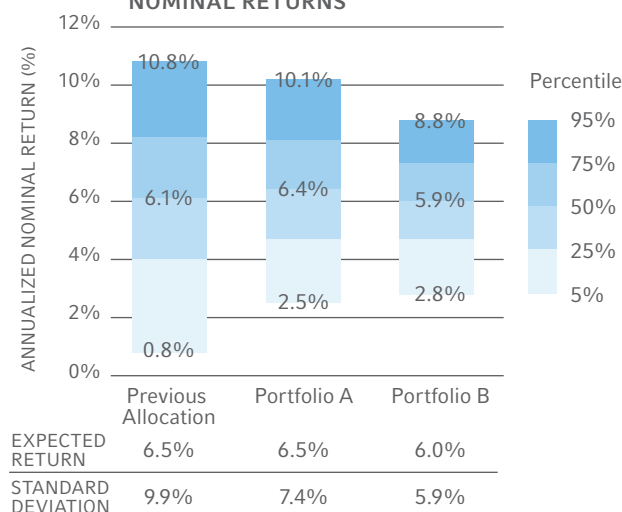
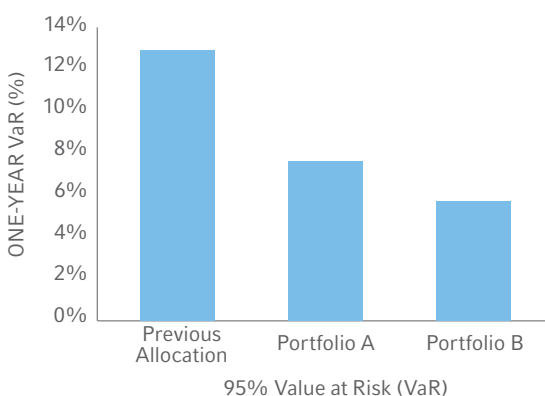


EXHIBIT 2: DOWNSIDE RISK ANALYSIS



Please note that the analyses shown in Exhibits 1 - 3 are based on Russell’s published capital markets assumptions (10-year forecast horizon) as of 12/31/2012. Forecasting represents predictions of market prices and/or volume patterns utilizing varying analytical data. There is no guarantee that the stated results will occur.

Pension assets

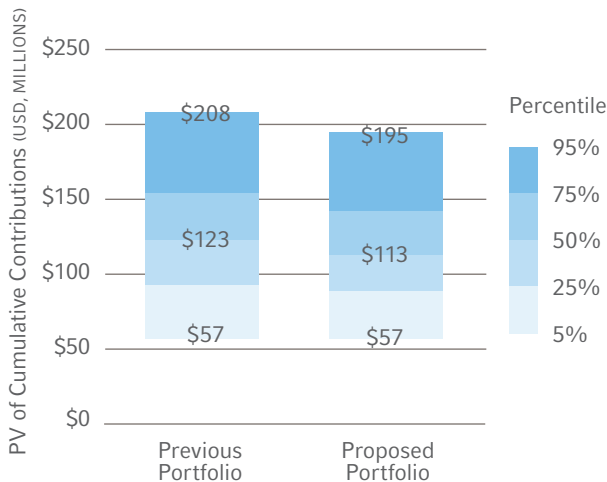
With the investment objectives of the pension plan now clearly identified, the committee and Russell Investments worked to implement portfolio changes with the intent of improving funded status and minimizing the duration mismatch between pension plan assets and liabilities. We identified key steps of a pension de-risking strategy designed to reduce both market risk and interest rate risk as funded status improves.

Our eventual strategy consisted of three primary steps which were integrated into a single seamless solution:

1. **Extend duration** of the fixed income portfolio to minimize the impact of interest rate changes on the plan's funded status
2. **Adopt a Liability Responsive Asset Allocation (LRAA) strategy** to dynamically shift the portfolio from equities to fixed income strategies as the pension plan's funded status improves
3. **Optimize the portfolio's growth assets** to target long-term growth and manage short-term volatility

By combining these steps and adopting a de-risking strategy, the system was able to reduce cumulative expected pension contributions by more than 8%, or roughly \$10 million as shown in Exhibit 3. In addition, the plans' expected surplus volatility going forward was reduced by 17%. In just two years since implementation of the new pension strategy, funded status has improved by 3% over the system's original legacy portfolio.

EXHIBIT 3: DISTRIBUTION OF 10 YEAR CUMULATIVE PENSION CONTRIBUTIONS



Foundation

The key objective for the system's foundation is to maintain the purchasing power of the assets into perpetuity to support the foundation's mission: improving the health and education of the community. Given the foundation's required spending rate and need to generate real returns above inflation, the system's original total return-based investment strategy was actually well-suited to the new goals identified for the foundation. While no significant portfolio changes were deemed necessary for this pool, the periodic review of goals and strategies was a valuable exercise for the investment committee (and co-fiduciary Russell Investments) in demonstrating their due diligence and prudent fiduciary care.

MORE ON DELEGATION AND OUTSOURCING

By delegating selected tasks and discretion to Russell Investments, the healthcare system gained an experienced co-fiduciary with extensive resources and clear accountability for the investment management process. This approach allowed the investment committee and board to leverage our capabilities and resources, which acted like an extension of their own staff.

With the Russell Investments team handling many of the day-to-day implementation details, the committee was able to shift their focus to top level issues:

- › strategic oversight
- › governance matters
- › objective setting
- › performance monitoring

Hiring a proven provider with a broad range of capabilities under one roof was a key step in advancing the healthcare system's investment programs.

RESULTS

Working together, the system's investment committee and co-fiduciary Russell Investments were able to develop an appropriate investment program for each asset pool and feel comfortable that they were implementing state of the art investment programs across all their portfolios, positioning each investment program appropriately for its unique investment objectives:

- › The board designated pool achieved a much lower level of expected volatility, while still being positioned to produce the returns needed to meet their cost of capital.
- › The duration of assets within the pension plan was brought more in line with liabilities, resulting in a reduction of surplus volatility and expected contributions.
- › The goals and strategies of the foundation were subjected to a much needed review, and the existing return-based investment strategy was confirmed as appropriate to meet expected spending needs.

ABOUT RUSSELL INVESTMENTS

Russell Investments has helped hospitals and healthcare system clients navigate challenges and meet goals since 1983. We work with each of our clients to fully understand their asset pools and unique investment needs. The comprehensive fiduciary solutions we design for our clients are tailored to meet each organization's specific goals and incorporate our award winning advice, investment strategy and implementation.

FOR MORE INFORMATION:

Call Russell Investments at **866-739-7979** or visit russellinvestments.com/institutional

Important information

This case study is for that of an individual Russell Investments Health Care client, and is provided solely to illustrate our capability and experience with this service. Individual actions and results will vary.

The information expressed herein represents the current, good faith views of the author(s) at the time of original publication, and has not been updated. Predictions, opinions, and other information contained in this material are subject to change continually, without notice of any kind and may no longer be true after the date indicated. Any forward-looking statements speak only as of the date they are made, and Russell assumes no duty to and does not undertake to update forward-looking statements.

Nothing contained in this material is intended to constitute legal, tax, securities, or investment advice, nor an opinion regarding the appropriateness of any investment, nor a solicitation of any type. The general information contained in this publication should not be acted upon without obtaining specific legal, tax, and investment advice from a licensed professional.

Please remember that all investments carry some level of risk, including the potential loss of principal invested. They do not typically grow at an even rate of return and may experience negative growth. As with any type of portfolio structuring, attempting to reduce risk and increase return could, at certain times, unintentionally reduce returns.

Diversification and strategic asset allocation do not assure profit or protect against loss in declining markets.

Data is historical and is not indicative of future results.

The information and any statistical data contained herein have been obtained from sources which we believe to be reliable but we do not represent they are accurate or complete and they should not be relied upon as such. All opinions expressed and data provided herein are subject to change without notice.

Russell Investments' ownership is composed of a majority stake held by funds managed by TA Associates with minority stakes held by funds managed by Reverence Capital Partners and Russell Investments' management.

Frank Russell Company is the owner of the Russell trademarks contained in this material and all trademark rights related to the Russell trademarks, which the members of the Russell Investments group of companies are permitted to use under license from Frank Russell Company. The members of the Russell Investments group of companies are not affiliated in any manner with Frank Russell Company or any entity operating under the "FTSE RUSSELL" brand.

Copyright © Russell Investments Group, LLC. 2013-2016. All rights reserved. This material is proprietary and may not be reproduced, transferred, or distributed in any form without prior written permission from Russell Investments. It is delivered on an "as is" basis without warranty.

First used: April 2013 (Reviewed October 2014 for continued use; Disclosure revision July 2016)

USI-20676-10-16