



Asset allocation research support to an institutional asset manager

2X

cost saving

100%

customised and automated solution

70%

reduction in turnaround time

CLIENT CHALLENGES

An institutional asset manager, managing and advising pension funds, required support in its strategy
research and asset allocation division. It needed support with developing proprietary tools, maintaining
the in-house code base and other recurring, time-consuming tasks. The client also required econometric
analysis and simulation studies conducted.

OUR APPROACH

- Acuity deployed a team of statisticians and programmers for this project. As a first step, we combined
 different assets and grouped them into equity, fixed income and real estate buckets. Risk-return
 optimisation techniques were applied to develop efficient frontiers by using the forecast
 return/covariance of various asset classes.
- The team then computed optimal asset allocation trajectories (equity, fixed income, others) in targetdate funds depending on different risk-tolerance levels.
- Back-tested and simulation-tested rebalancing strategies to arrive at an optimal rebalancing strategyfor different asset-allocation levels.
- Created customised MATLAB and Excel tools to automate scenario generation for calculating the optimal glide path for target-date funds.

IMPACT DELIVERED

• The client was able to reduce turnaround time by leveraging Acuity's resources to implement quantitative analysis and research

- Acuity rapidly developed customised tools and tested and implemented rebalancing strategies. These
 research tools enabled the client to optimally design pension funds and investment strategies, based on
 its client requirements
 - ° One of the tools, based on MATLAB and Excel, was to optimise allocations and generate efficient frontiers by combining asset classes based on client-provided capital markets assumptions
 - Acuity created another customised Excel-based tool to automate scenario generation for calculating the optimal glide path for target-date funds

About Acuity Knowledge Partners

Acuity Knowledge Partners is a leading provider of high-value research, analytics and business intelligence to the financial services sector. The company supports over 650 financial institutions and consulting companies through a team of over 6,000+ subject matter experts who work as an extension of the clients' teams based out of various global delivery centres.

We empower our clients to drive revenues higher. We innovate using our proprietary technology and automation solutions. We enable our clients to transform their operating model and cost base.

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