Decentralized Decision Making In Investment Management

Jules H. van Binsbergen
University of Pennsylvania

Michael W. Brandt

Ralph S. J. Koijen

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At the time of publication, author Jules H. van Binsbergen was affiliated with the Kellogg School of Management, Northwestern University and Stanford Graduate School of Business. Currently, he is a faculty member in the Finance Department of the Wharton School at the University of Pennsylvania.

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Decentralized Decision Making In Investment Management

Abstract
The article addresses the investment problem of a pension fund in which a centralized decision maker, the Chief Investment Officer (CIO), employs multiple asset managers to implement investment strategies in separate asset classes. The investment management division of pension funds is typically structured around traditional asset classes such as equities, fixed income, and alternative investments. The asset allocation decisions are made in at least two stages. Firstly, the CIO allocates capital to the different asset classes, each managed by a different asset manager. Secondly, each manager decides how to allocate the funds made available to him, that is, to the assets within his class. The CIO of the fund therefore faces a tradeoff between the benefits of decentralization, driven by the market timing and stock selection skills of the managers, and the costs of delegation and decentralization. The optimal portfolio of the asset managers can be decomposed into two components. The first component is the standard myopic demand that optimally exploits the risk-return trade-off. The second component minimizes the instantaneous return variance and is therefore labeled the minimum-variance portfolio. The minimum variance portfolio substitutes for the riskless asset in the optimal portfolio of the asset manager. The two components are then weighted by the risk attitude of the asset manager to arrive at the optimal portfolio.

Keywords
investment management, standard myopic demand, minimum variance portfolio, riskless asset, optimal portfolio, pension funds

Disciplines
Finance and Financial Management

Comments
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Abstract and Keywords

The article addresses the investment problem of a pension fund in which a centralized decision maker, the Chief Investment Officer (CIO), employs multiple asset managers to implement investment strategies in separate asset classes. The investment management division of pension funds is typically structured around traditional asset classes such as equities, fixed income, and alternative investments. The asset allocation decisions are made in at least two stages. Firstly, the CIO allocates capital to the different asset classes, each managed by a different asset manager. Secondly, each manager decides how to allocate the funds made available to him, that is, to the assets within his class. The CIO of the fund therefore faces a tradeoff between the benefits of decentralization, driven by the market timing and stock selection skills of the managers, and the costs of delegation and decentralization. The optimal portfolio of the asset managers can be decomposed into two components. The first component is the standard myopic demand that optimally exploits the risk-return trade-off. The second component minimizes the instantaneous return variance and is therefore labeled the minimum-variance portfolio. The minimum variance portfolio substitutes for the riskless asset in the optimal portfolio of the asset manager. The two components are then weighted by the risk attitude of the asset manager to arrive at the optimal portfolio.

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Jules H. van Binsbergen
Jules H. Van Binsbergen is Assistant Professor of Finance at the Kellogg School of Management at Northwestern University and the Stanford Graduate School of Business. Professor Binsbergen conducts theoretical and empirical research in finance. His current work focuses on asset pricing, in particular consumption-based asset pricing, return predictability, and quantitative portfolio management. Some of his recent research focuses on the implications of good-specific habit formation for asset prices, the interaction between cash flow growth predictability and stock return predictability, and the maturity structure of risk and return in financial markets. His research has appeared in leading academic journals such as the Journal of Finance. He is also a Faculty Research Fellow of the National Bureau of Economic Research (NBER).

Michael W. Brandt

Fuqua School of Business, Duke University

Michael W. Brandt is Professor of Finance and the IBM Research Fellow at the Fuqua School of Business at Duke University. Professor Brandt conducts theoretical and empirical research in finance. His work on quantitative portfolio management, the response of financial markets to news, the role of order flow in price discovery, and the link between financial markets and the macro-economy has appeared in leading academic journals, including The Journal of Business, Journal of Finance, Journal of Financial Economics, Journal of Monetary Economics, and Review of Financial Studies. He serves as co-editor of the Review of Finance, the official journal of the European Finance Association, and as associate editor of the Journal of Finance, the official journal of the American Finance Association. He is also a faculty research associate of the National Bureau of Economic Research (NBER). Prior to joining the Fuqua School of Business in 2003, Professor Brandt was at the Wharton School of the University of Pennsylvania for six years.

Ralph S. J. Koijen

Finance, University of Chicago

Ralph S. J. Koijen is Assistant Professor of Finance at the Booth School of Business at the University of Chicago. Professor Koijen conducts theoretical and empirical research in finance. His current work focuses on asset pricing, in particular quantitative portfolio management, return predictability, and performance measurement. Some of his recent research focuses on the interaction between cash flow growth predictability and stock return predictability, and the maturity structure of risk and return in financial markets, and performance measurement. His research has appeared in leading academic journals such as the Journal of Finance, Review of
Financial Studies, and the Journal of Financial Economics. He is also a faculty research fellow of the National Bureau of Economic Research (NBER).

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