



M E K E T A I N V E S T M E N T G R O U P

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MEKETA INVESTMENT GROUP

PROPOSAL TO PROVIDE
INVESTMENT CONSULTING SERVICES
FOR THE
CITY OF FRESNO RETIREMENT SYSTEMS

Submitted by
Meketa Investment Group
September 10, 2012

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MEKETA INVESTMENT GROUP

LETTER OF TRANSMITTAL



M E K E T A I N V E S T M E N T G R O U P

B O S T O N

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S A N D I E G O

September 7, 2012

Mr. Stanley L. McDivitt
Retirement Administrator
City of Fresno Retirement Systems
2828 Fresno Street, Suite 201
Fresno, CA 93721-1327

RE: REQUEST FOR PROPOSAL - INVESTMENT CONSULTANT SERVICES

Dear Mr. McDivitt:

Meketa Investment Group respectfully submits the enclosed proposal to provide Investment Consultant Services to the City of Fresno Retirement Systems. Meketa Investment Group is a full-service investment consulting firm advising on over \$80 billion in assets for 78 clients, representing over 150 funds, who have aggregate assets of over \$470 billion. We advise clients throughout the United States from our offices in Carlsbad, CA, Westwood, MA, and Miami, FL.

1. *The Firm's name, address, and telephone and fax number.*

Meketa Investment Group, Inc.

Headquarters

100 Lowder Brook Drive, Suite 1100
Westwood, MA 02090

Telephone Number: (781) 471-3500

Fax Number: (781) 471-3411

West Coast Office (Servicing Office)

5796 Armada Drive, Suite 110
Carlsbad, CA 92008

Telephone Number: (760) 795-3450

Fax Number: (760) 795-3445

The Systems would be serviced from our office in Carlsbad, California.

2. *The name, title or position, telephone number and email address of the individual signing the cover letter.*

Name, Title: Stephen P. McCourt, CFA, Managing Principal

Telephone Number: (760) 795-3450

Email Address: smccourt@meketagroup.com

3. *A statement that the signatory is authorized to bind the Firm contractually.*

Stephen P. McCourt, the undersigned, is authorized to bind Meketa Investment Group contractually.

4. *The name, title or position, and telephone number of the primary contact for the proposal, if different from the individual signing the cover letter.*

Mika Buffington Malone, Principal/Consultant is the primary contact for the proposal. Her telephone number is (760) 795-3450.

5. *A statement that the Proposal is a firm and irrevocable offer good for six (6) months from the deadline of submission of the Proposal*

The enclosed proposal is a firm and irrevocable offer good for six (6) months from the deadline of the submission of this proposal.

6. *A statement that the Firm has the ability in terms of staff, expertise and resources required to perform all of the services and provide all of the deliverables specified in this Request for Proposal.*

Meketa Investment Group has the staff, expertise and other required resources available for performing all services and providing all deliverables specified within.

7. *A statement to the effect that the Proposer meets the Minimum Qualifications for Proposal set out in this Request for Proposal.*

Meketa Investment Group meets all the Minimum Qualifications for Proposal set forth in this Request for Proposal.

8. *A statement accepting the terms and conditions of the Draft Agreement provided in Appendix 1 to this Request for Proposal, subject to written objections, if any, which should be specifically identified by the Proposer in the Letter of Transmittal.*

While Meketa Investment Group does not take major exception to any particular provision contained in the draft form agreement provided, we would like to reserve the right to request some modification and clarifications (i.e., customization to our scope of services, modification to insurance language, termination clause).

9. *A statement that the firm acknowledges that all documents submitted pursuant to this Request for Proposal will become a matter of public record.*

Meketa Investment Group acknowledges that all documents submitted with this Proposal will become a matter of public record. We would like to mark our Financial Statements contained as part of the Additional Materials and Documents section contained within the attached proposal as confidential and not for public disclosure.

We are excited about the opportunity to present our capabilities, and look forward to the prospect of working with you in the future. If you have any questions, please do not hesitate to call me or Mika Malone at (781) 471-3500. Thank you for your consideration.

Sincerely,



Stephen P. McCourt, CFA
Managing Principal, Consultant



Mika Buffington Malone
Principal, Consultant

enclosures

MEKETA INVESTMENT GROUP
RESPONSE TO QUESTIONNAIRE

PART B: QUESTIONNAIRE

NAME AND CONTACT INFORMATION

1. Please provide the following information on the Firm:

Information of the Firm	
<i>Name of the Firm</i>	Meketa Investment Group
<i>Address of Head Office</i>	100 Lowder Brook Drive, Suite 1100 Westwood, MA 02090
<i>Telephone Number</i>	(781) 471-3500
<i>Website</i>	www.meketagroup.com

2. Please provide the following information on the primary RFP contact for the Firm:

Primary RFP Contact	
<i>Name</i>	Mika Buffington Malone
<i>Title</i>	Principal, Consultant
<i>Telephone Number</i>	(760) 795-3450
<i>Fax Number</i>	(760) 795-3445
<i>E-mail Address</i>	mmalone@meketagroup.com

HISTORY, OWNERSHIP AND ORGANIZATION

3. When was the firm founded or established?

(a) Who were the founders?

(b) Please provide the names of any predecessor companies or other organizations with which the founders were previously associated.

(c) If the Firm was subsequently acquired by another company, when did this take place? What is the name of the parent company?

Meketa Investment Group was founded by James Meketa in 1974 as an investment partnership. In 1978, the firm was incorporated under Massachusetts law and became registered with the Securities and Exchange Commission as an investment advisor. We have been in business continuously for over thirty-four years.

The firm originated by providing investment strategy and systems advice to the Harvard Management Company (The Harvard University Endowment). The firm was hired by its first pension fund client in 1978, a relationship which continues to this day. Since 1978, Meketa Investment Group has grown steadily, and today consults on over \$80 billion in assets for 77 clients with aggregate assets of approximately \$470 billion.

Meketa Investment Group is an independent corporation, owned by fourteen of its senior professionals. We have no parent company and have not been acquired by another company.

4. *Please provide the names of the owners of the Firm and indicate their percentage of ownership.*

Please refer to the table below for Meketa Investment Group's current owners.

Firm Owner	Ownership Percentage (%)	Firm Owner	Ownership Percentage (%)
James Meketa	59.6%	Kellie Coonan	0.5%
Alan Spatrick	9.8	Mitch Dynan	0.5
Peter Woolley	9.8	Leandro Festino	0.5
Stephen McCourt	9.8	John Manley	0.5
John Haggerty	4.9	W. Fran Peters	0.5
Frank Benham	2.5	Kunal Shah	0.5
Ted Benedict	0.5	Mika Buffington Malone	0.1

5. *Please provide a brief description of the ownership and organizational structure of the Firm. Indicate the names of any subsidiary or affiliated companies and briefly describe the nature of their business, and the relationship between the Firm and these other companies.*

Meketa Investment Group is an independently-owned corporation. We have no subsidiaries or affiliated companies.

6. *What significant changes, if any, have there been in the Firm's ownership, structure or organization over the past three years? Do you anticipate any significant changes (including any proposed sale or merger of the firm) in the future?*

In the past three years, ownership of the firm was extended to Leandro Festino, Fran Peters, John Manley, Kellie Coonan, Ted Benedict, Mitch Dynan, Kunal Shah, and Mika Buffington Malone. Additionally, Meketa Investment Group opened an office in Miami, Florida in August of 2011.

At this time, we have no planned changes to our ownership structure or resources. We do intend to expand ownership to other senior professionals in the future.

7. *Please provide the locations of all offices and the total number of employees in each office. Indicate the office that would service this account.*

Office	Number of Professionals
100 Lowder Brook Drive, Suite 1100 Westwood, MA 02090	74
5796 Armada Drive, Suite 110 Carlsbad, CA 92008	26
1001 Brickell Bay Drive, Suite 2000 Miami, FL 33131	3

The City of Fresno Retirement Systems would be serviced from our West Coast office in Carlsbad, CA.

8. *Is the Firm registered as an investment advisor under the Investment Advisor Act of 1940? Does the Firm acknowledge that it has fiduciary status as an investment advisor in providing investment consulting services to pension plans?*

Yes. Meketa Investment Group is registered as an investment advisor under the Investment Advisor Act of 1940. Furthermore, Meketa Investment Group acknowledges that it has a fiduciary status as an investment advisor in providing investment consulting services to pension plans.

SERVICES AND REVENUES

9. *Please confirm whether or not the Firm can provide all of the services listed in Section I of the RFP under "Nature and Scope of Services."*

(a) *Are there any services that the Firm cannot or will not provide?*

(b) *List any additional services that the firm would provide and which are included in the fee proposal in Section IV.*

(c) *Indicate any other products or services that may be of interest to a plan sponsor and which would be available at additional cost.*

Meketa Investment Group can provide all of the services outlined in the "Purpose and Scope of Services" listed in Section I of the RFP.

10. *When did the firm begin providing investment consulting services to pension plans?*

Meketa Investment Group began providing investment consulting services to pension plans in 1978 when the firm was hired by its first pension fund client, a relationship which continues to this day.

11. *Please indicate the percentage of the Firm's investment consulting revenue received during the most recent fiscal year from full service consulting relationships (where a full service relationship is defined to include advice on asset allocation, investment manager selection and performance measurement), as well as non-full service consulting relationships.*

Source of Investment Consulting Revenue	Percent of Revenue
Full Service Consulting Relationships	98%
Non-Full Service Consulting Relationships*	2

* Includes projects that fall outside of the firm's full-retainer services

12. Does the Firm or any affiliate of the firm (including any subsidiary companies or parent company) provide any services in addition to investment consulting?

(a) If so, please indicate the percentage of total revenue received by the Firm (including any subsidiary companies) from investment consulting and other services listed below during the most recent fiscal year.

Source of Total Firm Revenue	Percent of Revenue
Investment Consulting	74%
Human Resources, Actuarial and Benefits Consulting	
Investment Management Services (excluding Fund-of-Funds)*	26
Fund-of-Funds Services	
Broker/Dealer Services	
Other (please specify):	

** Includes revenues from clients for which Meketa Investment Group provides Discretionary Private Markets services*

(b) If the Firm has a parent company, please indicate the percentage of total revenue received by the parent company from the following sources during the most recent fiscal year?

Source of Parent Company Revenue	Percent of Revenue
Plan Sponsor Clients	NA
Investment Manager Clients	NA
Brokerage Clients	NA
Other (please specify):	NA

Meketa Investment Group has no parent company.

INDEPENDENCE, OBJECTIVITY AND CONFLICT OF INTEREST

13. Does the Firm or any affiliate provide any services to, or receive any compensation from, investment managers, including but not limited to: (i) charges for inclusion in the Firm's database, (ii) conference fees, (iii) brokerage commissions, (iv) purchase of software, (v) consulting services, etc.?

No.

(a) If so, please describe briefly the nature of these services and compensation.

Not Applicable.

(b) Does the Firm or any affiliate provide any services or conduct any business with the retirement systems' current investment managers?

No.

- 14. Does the Firm have any arrangements with broker-dealers under which it, or any affiliated company, will benefit if investment managers place trades for their clients with such broker-dealers?*

No.

- 15. Does the Firm accept a pension plan's brokerage commissions as payment for its services? If so, please explain briefly how it ensures that the plan receives best execution in securities transactions.*

No.

- 16. Please disclose any potential conflicts of interest that may arise from the Firm's representation of the Retirement Systems, including the activities of any affiliated companies.*

To our knowledge, Meketa Investment Group does not have any potential conflicts of interest with the retirement system.

- 17. Has the Firm or anyone in the firm provided any gifts or other remuneration, or paid any expenses for travel, hotels, meals or entertainment for or on behalf of a Board member or staff of the Retirement Systems during the past twelve months. If so, please indicate the amount and purpose of the payments.*

No.

- 18. Has the Firm or anyone in the Firm had any professional relationship with the Retirement Systems' plan sponsors or legislative bodies during the past three years? If so, please describe the nature of the relationship.*

Meketa Investment Group has not had any professional relationship with the Retirement Systems' plan sponsors or legislative bodies during the last three years.

INSTITUTIONAL CLIENTS

- 19. How many institutional clients on a full service consulting basis does the Firm currently have? What are the total assets under advisement?*

Meketa Investment Group serves 78 full-retainer institutional clients. As of March 31, 2012, Meketa Investment Group has approximately \$84.3 billion in assets under advisement.

20. Please indicate the number of full service consulting clients that the Firm currently has by size of assets and type of client:

Type of Client	Under \$1 billion	\$1-10 billion	\$10-25 billion	Over \$25 billion
Public Pension Plans	12	5	0	3
Corporate Plans	5	0	0	0
Union/Taft-Hartley Plans	28	12	0	0
Endowments, Foundations & Hospitals	13	0	0	0
Other	0	0	0	0
Total Number of Full Service Clients	58	17	0	3

21. Please indicate the number of full service public pension plan consulting clients that the Firm currently has by length of service with the firm:

Length of Service	Number of Clients
Less than 1 year	3
1-5 years	11
5-10 years	4
Over 10 years	2

22. How many client relationships were terminated, or the firm resigned, over the last three years ending June 30, 2012? What were the reasons for termination or resignation and what was the total value of assets involved?

Reasons for Termination	Number of Cases	Value of Assets
Firm Dismissed Outright		
Contract Rebid – Firm Not Retained	2	\$564 m
Firm Asked Not to Bid		
Firm Resigned Client Relationship		
Plan Merger or Consolidation	1	\$27 m
Fund Management Outsourced		
Other (please specify): Fund liquidation	1	<\$1 m
Total Terminations/Resignations	4	\$582 m

PROFESSIONAL STAFF

23. Please indicate the number of professional staff (not administrative or clerical staff) that the Firm currently employ in each of the following categories. (Each person should be assigned to only one category.)

Category of Professional Staff	Number of Staff
Senior Consultants*	26
Consultants	NA
Analysts (including Research, Economics, etc.)**	34
Firm Management	5
Marketing	1
Technical/Systems	1
Total Professional Staff	67

* All consultants serve in both "lead" and "support" capacities

** Analysts include data analysts and investment analysts

Please refer to Appendix A for Meketa Investment Group's Organizational Chart.

24. Please indicate the turnover in professional staff (including consultants, analysts, firm management and key executives) during the last three years.

Staff Turnover	Number of Staff			
	Consultants	Analysts	Firm Management	Other
Hired	4	9	0	1
Terminated	1	1	0	0
Resigned	0	4	0	0
Retired	0	0	0	0
Other (please specify):	0	0	0	0

25. Please provide the average number of clients per consultant, both lead and support consultant. Indicate the maximum limit, if any, on the number of clients assigned per consultant.

Role as Consultant	Average No. of Clients	Maximum Limit per Consultant
Lead Consultant	5	See note below
Support Consultant	5	See note below

Meketa Investment Group does not have a formal limit of the maximum number of clients that will be assigned to a consultant. We accept new assignments only if we believe we can offer client services of the highest caliber. We will never compromise the quality of our work in order to grow.

26. How many staff have acquired professional designations such as the CFA, CAIA, FSA, etc.? How many are currently enrolled in these programs?

Professional Designation	Acquired	Enrolled
Chartered Financial Analyst (CFA)	18	7
Chartered Alternative Investment Analyst (CAIA)	13	5
Fellow of the Society of Actuaries (FSA)	0	0
Other (please specify):	0	0

27. Which of the following types of compensation are provided to professional staff? Please indicate whether the compensation applies to all staff, senior staff, key employees, or principals only.

Type of Compensation	All/Senior/Key/Principals
Salary	All
Bonus	All
Profit Sharing	All
Stock Ownership	Senior Staff
Stock Options	Senior Staff
Equity Participation	Senior Staff
401 (k) or Other Deferred	All
Other (please specify):	NA

28. How many professional staff will be assigned to this account?

If hired by the Retirement Systems, the account will be serviced by Mika Buffington Malone as the Primary Consultant and Laura Wirick and Stephen McCourt as the Secondary Consultants. In addition, a dedicated investment analyst and data analyst would also be assigned to the account. In total, five people would be assigned to the account, supported by many other team members, who are intimately involved in the day to day business of the client and discuss strategy with consultants.

29. Please provide the following information on the lead consultant and, if applicable, the support consultant to be assigned to this account:

		Lead Consultant	Support Consultant	Support Consultant
Name		Mika Buffington Malone	Laura B. Wirick	Stephen P. McCourt
Title		Principal, Consultant	Senior Vice President, Consultant	Managing Principal, Consultant
Role and/or Function				
Number of Years of Experience	Institutional Investments	11	10	17
	Investment Consulting	9	10	17
	With the Firm	9	4	17
Educational Qualification (including Name of College/University)		University of San Diego, MBA University of Maryland, BA	American University, BSBA	Harvard University, ALM University of Vermont, BA
Number of Accounts as Lead Consultant		6	3	5
Names of the Three Largest Accounts		Santa Barbara County Employees Retirement System, Rady Children's Hospital and Health Center, Western States Insulators and Allied Workers Trust Funds	San Jose Federated City Employees' Retirement System, California Value Trust, Group Health Cooperative of Puget Sound	CalPERS, Arizona State Retirement System, IAM National Pension Fund
Number of Accounts as Support Consultant		4	2	6

30. Please provide the name and title and/or role of any other members of the team to be assigned to this account.

In addition to the proposed consulting team mentioned above, a dedicated investment analyst and a data analyst would also be assigned to the Retirement Systems and a number of support staff who are intimately involved in the day-to-day business of the client and who meet regularly with the consultants on issues of strategy.

ASSET ALLOCATION

- 31. *When did the Firm begin conducting asset allocation studies for pension plans? How many studies (formal comprehensive studies rather than informal reviews or updates) has the Firm conducted over the past three years?***

Meketa Investment Group has been conducting asset allocation studies for pension plans since our inception thirty-four years ago. Over the past three years, the firm has conducted asset allocation studies for approximately 100 funds on behalf of our clients.

Meketa Investment Group generally recommends a formal review of asset allocation policy for clients at least every three years. However, for the majority of our clients, we review asset allocation formally on an annual basis.

- 32. *Please describe the Firm's asset allocation methodology by responding to the following questions:***

- (a) *Is the asset allocation process based on analysis of both assets and liabilities of the pension plan, or assets only?***

Meketa Investment Group conducts asset allocation studies based on analysis of both assets and liabilities of a pension plan.

- (b) *Is the asset allocation process stochastic or deterministic with respect to (i) assets and (ii) liabilities?***

Meketa Investment Group analyzes assets and liabilities using both stochastic and deterministic analysis. While stochastic analysis provides information on a broad spectrum of asset/liability outcomes, it tends to underestimate the frequency and severity of large negative and positive events. Consequently, relying solely on stochastic analysis can cause decision-makers to underestimate the risk associated with various asset allocation policies.

- (c) *Please explain briefly how the modeling of the assets is linked to or integrated with the modeling of the liabilities.***

Matching investments (assets) with liabilities has long been a strength of our firm, and an area in which we have produced pioneering work. For example, for a number of clients we have created highly specialized Safety Reserve® portfolios designed to guarantee that benefit payments can be made even in a worst-case economic and market scenarios. The purpose of the Safety Reserve® portfolio is to ensure that all operating expenses and benefits will be paid on time regardless of market environments. The creation of a Safety Reserve® portfolio involves the very precise matching of assets and liabilities, and demonstrates our firm's great strength in this area.

When performing an asset liability study, we work with a fund's Board members and actuary to obtain and understand the fund's liability structure. Liability estimates include both most likely expectations and one or more worst-case liability scenarios. Meketa Investment Group's asset-liability study consists of

five components that are necessary to reach an optimal asset allocation recommendation.

1. Developing Economic and Capital Market Scenarios

We develop five economic and capital market scenarios that could potentially unfold over the next twenty years. These scenarios range from very optimistic to very pessimistic. Note that none of the five scenarios are worse or better than any economic and capital market environment actually experienced over the past century. The five scenarios are based on actual historical relationships.

2. Developing Asset Allocation Policies

We develop five potential asset allocation policies for the fund, ranging from very conservative to very aggressive. The goal of developing the policies was not to find the exact one that is optimal for the fund but, rather, to view a mix of policies to give us and the Board a sense of how different asset allocation policies would react to different economic and capital market environments.

3. Determining Impact of Scenarios on the Various Asset Allocation Policies

After developing the economic and capital market scenarios, and the asset allocation policies, we model how the five asset allocation policies will behave in each of these scenarios. In essence, we create twenty-five combinations of asset allocation policies and economic environments, providing the Board with a broad array of information on potential fund outcomes.

4. Determining the Impact of Scenarios on Fund Liabilities

The complexion of the fund can change, as existing members age and retire, and new members join. The fund's demographics will likely change as a result of varying economic environments. For example, a stagnant economy with high unemployment could result in declining new entrants and increased retirements, placing a higher cash flow burden on the fund.

5. Developing Outputs of the Asset-Liability Study

Meketa Investment Group will collaborate with the fund's actuary in developing the outputs of the asset-liability study. We identify important elements of the fund, and then evaluate how each element would behave under the various economic scenarios and asset allocation policies. Each of the elements will be evaluated under twenty-five pre-defined conditions (five economic scenarios and five asset allocation policies). This broad perspective provides much clearer insight into the true risk inherent in the fund at the time of the study, and over the next twenty years.

Meketa Investment Group continuously monitors a client's asset allocation, and addresses asset allocation explicitly each quarter in our quarterly reports. When necessary, such reviews may result in a rebalancing of asset allocations. In general,

it is our intention that the fund will adhere to its long-term target allocations, and that major changes to these targets will be made rarely and only in response to significant developments in the circumstances of the fund, or in response to material changes in the fundamental nature or appropriateness of the asset classes themselves. However, we do believe that there are opportunities for a more tactical approach to asset allocation, at the margins, for those clients who wish to employ this type of methodology.

(d) Does the process incorporate analysis of different economic scenarios?

Yes. Meketa Investment Group uses two types of deterministic analysis: scenario analysis and Economic Regime Analysis. Scenario analysis allows us to “stress test” asset/liability outcomes for severe market events. Economic regime analysis allows us to view the performance of assets and liabilities within the context of discrete economic environments.

Meketa Investment Group has developed a new tool to be used by asset allocators that allows for a more comprehensive and realistic approach to the asset allocation process. Economic Regime Management® (ERM) starts with the base assumption that the return of a Fund over the long term will be influenced more by the economic regime under which the fund exists, than the specific asset allocation policy adopted. For example, in the 1990s, virtually any asset allocation policy would have succeeded in producing an 8% annualized rate of return. In the 2000s, virtually any asset allocation policy would have failed to produce an 8% annualized return. Consequently, the economic environment proved much more important in determining the success of an investment program than any specific asset allocation policy.

ERM allows the Board to test how different investment strategies will behave under various economic regimes. For example, does the current asset allocation have a high likelihood of success in a high inflation, low growth environment? What about a low inflation, high growth environment? By testing different asset allocation policies across various economic regimes, Board members can not only create asset allocation policies diversified by asset, but also diversified by economic regime, a more influential factor over the long term.

In addition, ERM can be extended for use in asset-liability studies. It is well known that liabilities are similarly sensitive to future economic environments, as discount rates, contributions, and payments are often tied to economic performance and inflation. Through ERM, we are able to model liabilities and assets simultaneously, providing a complete picture of funded status depending on the future environment we experience. As in the case of an asset-only study, the full results will provide the plan sponsor with recommendations that better acknowledge the impact of less likely—but no less impactful—economic environments than a standard MVO-type analysis.

33. *Does the firm analyze the impact of asset allocation over different future time periods? If so, what future time periods and why?*

Yes. Meketa Investment Group conducts an annual Asset Allocation Study in which we set expected returns, volatility, and correlations for various asset classes for the next three, five, and twenty years and stress-test our projections. Each year, the asset class expectations are revised and are then used as one of the bases for long-term strategic investment planning. While we do calculate three and five year expectations, we rely more on ten-year and twenty-year projections. Ten-year expectations are primarily used internally for occasional medium-term tactical recommendations, but they also serve as the primary foundation for our longer-term, twenty-year expectations. We form our twenty-year annualized return expectations by systematically considering historical performance on an asset class by asset class level.

34. *How does the Firm analyze the trade-off between risk and reward of alternative asset allocation policies for a defined benefit pension plan? How does it define and measure reward? How does it define and measure risk?*

We develop five economic and capital market scenarios that could potentially unfold over the next twenty years. We base our analysis on twenty-years because we plan for the long-term horizon.

Our asset allocation model measures reward through expected returns of the various asset classes over a ten- and twenty-year period. We use nominal expected returns using twenty-five different scenarios.

Within each of these three classifications of methods, there are numerous models that are used to project asset class returns. It is important to reconcile the projections of all types of models. This reconciliation highlights implications and assumptions inherent in each of the models, and leads to a more intellectually sound forecast.

Meketa Investment Group estimates future asset class returns using a variety of methods. For bonds and cash, we utilize current market yields and the implied forward yield curve to calculate the market's return expectations. For equity asset classes, a modified risk-premium model is used. However, our investment expectations include aspects of all three forecasting methods to assure a full understanding of the implications of the outputs from the models.

All return expectations are quantified with appropriate measures of return uncertainty (i.e., volatility) and with reasonable estimates of return correlations with other asset classes.

Meketa Investment Group views risk within a far broader context than the traditional risk measures, and works to educate clients on all potential sources of risk within a portfolio. While risk budgets generally perform well in quantifying interim "volatility," many of our clients perceive risk differently. In general, we view the primary risk of operating a defined benefit plan as "mission failure." The "mission" is to pay all promised benefits when due. This risk management philosophy is different from a more simplistic approach based on standard deviation or volatility. Based only on volatility as a measure of risk, one may determine that cash is the least risky asset class, when, in

fact, it is the least likely to produce the returns necessary to pay all promised benefits over the long term.

The financial markets are intrinsically risky and volatile. Meketa Investment Group monitors and calculates quantitative risk measures such as Beta and standard deviation on portfolios and funds. We include in our reports standard deviation, Beta, correlation, Sharpe measure and information ratio at both the aggregate asset class and the individual manager level (given sufficient available data points). However, our advice also incorporates a much broader and longer-term definition of risk, as the traditional risk measures are purely retrospective, and do not represent a clear picture of the Retirement Systems' risk profile going forward.

To determine future risk profiles, we evaluate the actual investments of all investment managers, as well as the structure of the asset allocation determined by the System. Equity manager portfolios are analyzed from the perspective of company size, fundamental characteristics (price-earnings ratio, price-book value ratio, dividend yield, historical and projected earnings growth rates), industry concentration, and individual stock concentration. Fixed income manager portfolios are analyzed from the perspective of interest-rate sensitivity (duration), credit quality, and sector diversification, among other measures. In addition, the Retirement Systems' risk will be viewed at a total portfolio and aggregate asset class level. For example, for equity portfolios these metrics include arithmetic mean return, standard deviation, best monthly return, worst monthly return, beta, correlation to index, correlation to total fund return, Sharpe measure, information ratio, and active share calculations.

Our multi-faceted analysis represents a very sophisticated form of return attribution. For example, we are able to determine accurately whether a manager's superior results are the result of bottom-up security selection, top-down macro judgments, or the assumption of high levels of risk. This process helps us to ensure that our clients' funds are never subjected to excessive or unnecessary risk levels.

Meketa Investment Group has developed a new tool to be used by asset allocators that allows for a more comprehensive and realistic approach to the asset allocation process. Economic Regime Management® (ERM) starts with the base assumption that the return of a Fund over the long term will be influenced more by the economic regime under which the fund exists, than the specific asset allocation policy adopted. For example, in the 1990s, virtually any asset allocation policy would have succeeded in producing an 8% annualized rate of return. In the 2000s, virtually any asset allocation policy would have failed to produce an 8% annualized return. Consequently, the economic environment proved much more important in determining the success of an investment program than any specific asset allocation policy.

ERM allows the Board to test how different investment strategies will behave under various economic regimes. For example, does the current asset allocation have a high likelihood of success in a high inflation, low growth environment? What about a low inflation, high growth environment? By testing different asset allocation policies across various economic regimes, Board members can not only create asset allocation policies diversified by asset, but also diversified by economic regime, a more influential factor over the long term.

35. Please list the various steps or components of the asset allocation model (e.g. mean-variance optimization, projection of liabilities, multi-period simulation, etc.).

Meketa Investment Group uses a combination of proprietary and third party software to model and analyze our clients' assets and liabilities. To complement our proprietary internal research, we use a third-party software package, EnCorr Optimizer, to run mean variance optimizations, Monte Carlo simulations, and risk budgeting. Combining our capital market assumptions into this tool, we produce an initial round of candidate portfolios. We then further refine these portfolios by conducting scenario analysis, liquidity analysis, and liability analysis, as appropriate. We then present these portfolios to the Board and incorporate any feedback they provide.

In recommending target asset allocations for our clients, we rely on a combination of resources. We use Ibbotson's Optimizer software to develop our efficient frontier based on the outputs from our Asset Study. Further, we utilize analytical software to examine historical asset class behavior and to evaluate optimum portfolios under various scenarios and constraints. However, we believe our value added does not stem from our ability to use computerized analytical tools, but from our ability to use qualitative research, experience, and common sense to evaluate quantitative data and apply real-world solutions. For example, the optimization output does not consider all the risks with investments and often calls for excessive investments in risky asset classes. We recognize these short-comings of asset allocation models and make appropriate adjustments.

(a) Which components of the asset allocation model were internally developed, and which, if any, are licensed from one or more third-party vendors?

For asset allocation modeling we use Ibbotson Encorr Analyzer, which provides information on historical capital market returns, and Ibbotson Optimizer, a mean variance optimization tool for an asset allocation analytical tools. The Ibbotson database includes 700 distinct investment benchmarks, including historical capital market returns and widely used indices (e.g., S&P, Russell, MSCI, Barclays).

We also utilize PerTrac, a leading asset allocation and investment analysis software program. The program integrates portfolio simulation, optimization, correlation, peer and style analysis on a returns based (backward looking) platform. This software program provides analytical support allowing the firm to produce customized reporting and in depth statistical and scenario analysis. Finally, through our proprietary ERM, we are able to model liabilities and assets simultaneously, providing a complete picture of funded status depending on the future environment we experience. We are experienced at working with the liabilities calculated by actuaries and clients.

(b) Please provide the names of the third-party vendors if any.

For asset allocation modeling, we use the following third-party vendors: Ibbotson Encorr Analyzer, Ibbotson Optimizer, and PerTrac.

36. How are investment assumptions with respect to returns, volatility and correlations – i.e. the inputs to the asset allocation model – developed?

- (a) To what extent are these assumptions derived from historical data or trends, or reflect current market conditions, or are based on future expectations of inflation, real yields, risk premiums, etc.? Please explain briefly.*

Our process relies on both quantitative and qualitative methodologies. First, we employ a large set of quantitative models to arrive at a set of baseline expected ten-year annualized returns for major asset classes. These models attempt to forecast a gross “beta” return for each asset class—that is, we explicitly do not model “alpha,” nor do we apply an estimate for management fees or other operational expenses. Our models may be econometrically derived (that is, based on a historical return relationship with current observable factors), factor-based (that is, based on a historical return relationship with predicted factors), or fundamentally based (that is, based on some theoretically defined return relationship with current observable factors). Some of these models are more predictive than others: for example, the model for U.S. investment grade bonds, which relies on yields, is much more accurate than the model for U.S. equities, which relies on fundamental valuation metrics. For this reason, we overlay a qualitative analysis, which takes the form of a data-driven deliberation among the asset allocation team. We ask: Why are different models within the same asset class leading to different conclusions? Are the assumptions consistent across asset classes? What are our models missing about the possible evolution of the next ten years? Naturally, return assumptions for hard-to-predict asset classes will be influenced more heavily by our qualitative analysis.

Our ten-year expectations are primarily used internally for occasional medium-term tactical recommendations, but they also serve as the primary foundation for our longer-term, twenty-year expectations. We form our twenty-year annualized return expectations by systematically considering historical performance on an asset class by asset class level. We do this by performing a weighted average of our ten-year expectations with average historical returns in each asset class, with the weights determined by a qualitative assessment of the value of the long-term historical data. Generally, if we have little confidence that the historical average return is representative¹, we will weight our ten-year forecasts more heavily. If we have great confidence in the historical average, we will weight the ten-year forecasts and historical average equally. Therefore, the weight on our ten-year forecasts ranges from 0.5 to 0.9 (with an average of 0.7). Generally, the weights are similar within broad asset class categories, such as public equities, fixed income or hedge funds. Finally, we discuss the results with the wider consultant community at the firm, who question the asset allocation team about their models and assumptions.

We develop our twenty-year volatility and correlation expectations slightly differently. For these parameters, we do not first develop separate ten-year

¹ For example, we have less confidence in historical data that do not capture many possible market scenarios or are overly polluted by survivorship bias.

expectations. Instead, we rely solely on various historical averages—qualitative adjustments, when applied, usually serve to increase the correlations and volatility over and above the historical estimates (e.g., using the higher correlations usually observed during a volatile market). In the case of private markets and other illiquid assets, where historical volatility and correlations have been artificially dampened, we seek public market equivalents on which to base our estimates before applying any qualitative adjustments. These volatility and correlation expectations are then combined with our twenty-year return expectations to assist us in subsequent asset allocation work, including mean-variance optimization and scenario analyses.

Throughout the process, we remind ourselves of our overarching goals:

- Consistency of results with historical experience and fundamentals
- Consistency of results with macroeconomic reality
- Consistency of results across asset classes
- Recognition of forecasting error and its implications

(b) Who in the firm is involved in developing the assumptions?

The Asset Allocation Committee is comprised of four of the firm's senior investment professionals, including Frank Benham, Director of Research/Managing Principal, and three of the firm's other Managing Principals and most experienced investment professionals.

(c) How often are these assumptions updated or revised?

Meketa Investment Group conducts the Asset Allocation Study annually. In some cases, our annual Asset Allocation Study may be revised. The most recent significant adjustment to our Asset Study and Model Portfolio occurred in the third quarter of 2009, as a result of the tremendous gain in asset values during the second and third quarter of that year. As a result, we significantly revised our 2009 capital market assumptions. We felt that it was prudent to adjust our numbers downward prior to the January 2010 annual revision because our models indicated significantly lower long-term returns as a result of the large market gains. In general, we believe that intra-year revisions should only be made when our return forecasts differ substantially from the initial estimates.

37. If the asset allocation model includes pension liabilities, how are liability projections developed? Please explain briefly.

When performing an asset liability study, we work with a fund's Board members and actuary to obtain and understand the fund's liability structure. Liability estimates include both most likely expectations and one or more worst-case liability scenarios. Please refer to our response in Question 32.c for a thorough description of our asset-liability study.

(a) Does the firm use its own actuarial assumptions and methodology or does it rely on the benefit projections of the retirement system's actuary?

Meketa Investment Group works with clients' individual actuaries on asset liability studies and other projects that depend on actuarial data.

(b) Does the Firm have any actuarial staff and expertise of its own?

No. Meketa Investment Group does not have a dedicated actuarial staff. However, some of our employees have worked in actuarial capacities in the past and provide their insight into projects when necessary.

38. Are there any asset classes or market segments that are NOT included in the asset allocation model?

No. We do not exclude any asset class from our model. We incorporate asset classes suitable for institutional investors into our asset allocation model.

The following asset classes are included in the firm's asset allocation model.

Asset Class	
Equities	Fixed Income
Public Domestic Equity	Cash Equivalents
Public Domestic Equity (Micro)	Short-Term Investment Grade Bonds
Public Foreign Equity (Developed)	Investment Grade Bonds
Public Foreign Equity (Large)	TIPS
Public Foreign Equity (Small)	High Yield Bonds
Public Foreign Equity (Emerging)	Bank Loans
Public Foreign Equity (Frontier)	Foreign Bonds (unhedged)
	Emerging Market Bonds
Private Equity	Real Assets
Buyouts	Real Estate
Venture Capital	REITs
Mezzanine Debt	Core Private Real Estate
Hedge Funds	Value Added Real Estate
	Opportunistic Real Estate
Other	
Portable Alpha (Core Bonds)	Natural Resources (Public)
Portable Alpha (Equities)	Natural Resources (Private)
	Commodities
	Infrastructure (Public)
	Infrastructure (Private)

(a) If so, how is the allocation to these asset classes determined in the asset allocation study?

Not applicable. We do not exclude any asset class from our asset allocation study.

(b) If alternative or non-traditional asset classes (such as real estate, private equity, hedge funds, etc.) are included, how does the model deal with non-market valuations and/or non-normal distribution of returns for these asset classes?

For private markets and other illiquid assets, where historical volatility and correlations have been artificially dampened, we seek public market equivalents on which to base our estimates before applying any qualitative adjustments. These volatility and correlation expectations are then combined with our twenty-year return expectations to assist us in subsequent asset allocation work, including mean-variance optimization and scenario analyses.

39. *How frequently would the Firm conduct a formal comprehensive asset allocation study within the flat fee proposed in Part C?*

(a) What type of follow-up analysis or review of asset allocation would the Firm perform in between comprehensive asset allocation studies?

(b) How frequently would such follow-up reviews be conducted?

We would be prepared to conduct a formal asset allocation study for the Retirement Systems annually. Meketa Investment Group generally recommends a formal review of asset allocation policy for clients at least every three years or earlier if requested by the client. However, for the majority of our clients, we review their asset allocation on an annual basis and continuously monitor a client's asset allocation, and address asset allocation explicitly each quarter in our quarterly reports. When necessary, such reviews may result in a rebalancing of assets. In general, it is our intention that the fund will adhere to its long-term target allocations, and that major changes to these targets will be made rarely and only in response to significant developments in the circumstances of the fund, or in response to material changes in the fundamental nature or appropriateness of the asset classes themselves. Importantly, we believe that asset allocation is the core of our job as a general consultant. We do not charge our clients any additional fees for conducting more frequent asset allocation reviews/studies.

40. *What approach does the Firm recommend toward rebalancing the asset allocation of the Fund? Please explain briefly.*

Asset allocations will drift gradually over time, and may change more abruptly in certain circumstances. Meketa Investment Group works with clients to implement cost-effective, non-disruptive methods for restoring or adjusting fund asset allocations. In all cases, the specific plan for rebalancing will identify those assets that can be shifted at the lowest possible risk and cost, if the rebalancing cannot be accomplished solely by allocating contributions and withdrawals.

To avoid hasty judgments and expensive tactical reversals, we recommend that all investment decisions be made within the framework of the investment policy. A disciplined approach reduces the tendency to "time the markets," adopt investment fads, or terminate managers after a short interval of poor performance. Meketa Investment Group continuously monitors client asset allocations, and addresses asset allocation explicitly each quarter in our written fund reviews. We also have successfully implemented more "tactical" rebalancing policies and approaches for those clients who

wish to use Meketa Investment Group's considerable expertise in evaluating dislocations in the condition of the marketplace to implement over or under-weight positions at the margin.

In our judgment, external cash flows (i.e., external contributions or withdrawals from investment assets (index funds) should always be used as a rebalancing tool. In this way, a necessary event (i.e., the cash flow) is made to serve two purposes at no additional cost. Cash should be used to return assets to an allocation target even if the assets remain within the target range. The cost of making this type of rebalancing is essentially zero. Meketa Investment Group works closely with our clients to make these recommendations to improve the efficiency and performance of the pension plan.

Outside of cash flow rebalancing, Meketa Investment Group recommends that clients put into place a rebalancing policy that requires rebalancing when assets fall outside of target ranges, or at least annually. We have developed a methodology for where within a target range it is appropriate to rebalance, based on significant research on rebalancing conducted both by Meketa, and others in our industry.

41. Does the Firm advocate short-term or tactical changes in asset allocation in response to changing market conditions? If so, what approach does it recommend toward making such changes?

As part of our regular dialogue with clients, we will make tactical recommendations when appropriate. However, we are always mindful of the difficulty associated with market timing when making such recommendations. In many cases, we make recommendations (if working on a non-discretionary basis) or implement (discretionarily) tactical over and underweights to specific pieces of an asset allocation structure, in order to take advantage of opportunities in the markets. As an example, during the extreme market events such as in late 2008 and early 2009, we recommended and implemented traditional rebalancing decisions, as well as tactical decisions. The tactical investments were made in distressed debt, high yield bonds, and small/microcap stocks. A smaller allocation recommendation was made toward emerging markets. These actions have been very rewarding for our clients.

INVESTMENT MANAGER SEARCH AND SELECTION

- 42. What is the Firm's approach towards investment manager search and selection? Does it undertake every manager search starting from scratch? Or does it develop and maintain a list of preferred managers for various asset classes and investment mandates and recommend managers from that list?***

Our manager search philosophy is based on the tenet that history is not a perfect guide. Over time, markets and firms change and it is important to use forward thinking analysis. Our manager search process begins with defining a client's needs and then casting a wide net. It is a collaborative process, wherein we listen to suggestions from our clients. We often have up to six investment professionals working internally on a search. All resulting finalist recommendations are only made when they are considered appropriate for a client, and often represent a broad spectrum of potential candidates.

Meketa Investment Group's research process is a comprehensive approach focused on constant diligence of our clients' current managers, evaluation, and selection of new manager opportunities and on-going sourcing of new ideas. Meketa Investment Group has specific, strict criteria to identify manager candidates for our clients. We ensure that the most appropriate managers have been identified for each client for each search, by utilizing our tools and resources.

Every "search" we do for a client is customized. However, we do have a "bullpen" of public market managers in each asset class who have gone through our multi-stage research process. These managers have been fully researched and vetted by our senior investment professionals. If appropriate, they will usually be considered in new searches. Despite the existence of this bullpen, each search is conducted in an open, competitive manner, consistent with our role as a fiduciary.

- 43. Do you undertake a self-evaluation of your success in recommending investment managers that outperform their benchmark over the first capital market cycle for new client mandates?***

(a) If so, what changes, if any, have you made to your manager search and selection process based on those self-evaluations?

(b) What results based on these changes have you achieved?

Yes. Meketa Investment Group monitors the success of our manager selection. Currently, we utilize a proprietary internal manager ranking system. This allows us to monitor our ability to identify best-in-class managers, as well as monitor our ability to identify and avoid inferior managers. Our success in selecting managers that add value is reflected in our low client turnover which has averaged less than 3% historically. Manager selection and monitoring, along with our intensive level of service, have contributed to a high degree of client satisfaction.

44. How many investment manager searches has the firm conducted over the past three years ending June 30, 2012 for the following asset classes and investment strategies? What was the total value of assets involved in each type of search?

Please refer to the table below for completed investment manager searches for the past three years. The number of manager changes per year largely depends on the client, and a typical plan may change two to four managers per year.

Manager Searches	Number	Value of Assets (\$ mm)
Domestic Equities - all styles & market caps	31	621
Domestic Fixed Income – inc. high-yield bonds, mortgages, etc.	66	1,330
International and Global Equities – inc. emerging & frontier markets	38	1,187
International and Global Bonds – inc. emerging & frontier markets	35	816
Alternative Investments - real estate, private equity & hedge funds	Individual funds or managers Fund of funds	* *
Real Assets – commodities, timberland, infrastructure, etc.	Individual funds or managers Fund of funds	* *
Synthetic Strategies - TAA, currency overlay, alpha transport, managed futures, etc.	-	-
Other (please specify):	-	-
Total Manager Searches	170	\$3,954

* Clients that receive our specialized Private Markets Consulting Service benefit from continuous sourcing activities that result in a constantly refreshed set of opportunities. As a result, specific manager searches are less common and typically taken on as part of a specific mandate or special project. Over the past three years, we have invested between in 15-20 partnerships per year alternative investments and 5-8 investments in real assets.

45. *Is there a specific unit or group within the Firm dedicated to (i.e. spends 100% of its time on) manager research, including for both public market (traditional) assets and private market (alternative non-traditional) investments? If so, please provide the following information for that group:*

Yes. Meketa Investment Group has two specific groups dedicated to manager research. Our Marketable Securities Group consists of 10 professionals and is responsible for due diligence and research on public markets managers. Our private markets manager research group consists of 23 professionals who are responsible for the due diligence of alternative non-traditional investments. Within these groups, several of our professionals are solely dedicated (90-100% of their time) to manager research. However, all of Meketa Investment Group's investment professionals conduct research on investment management firms and their products.

Name of Database	Consultants	Analysts
Dedicated Staff for Traditional Investment Managers	5	5
Dedicated Staff for Alternative Investment Managers/Funds	4	11
Other Staff Involved in Manager Research & Due Diligence	5	3
Percent of Time (on Average) Spent on Such Activities	Dedicated Staff 90-100% Other Staff 5-20%	Dedicated Staff 90-100% Other Staff 5-20%

46. *Please list the databases used for manager research for both traditional and alternative assets. Provide the following information for each database. Enter the information or an 'X' as required in the appropriate cell or cells of the table below.*

(a) *The type of database - whether it is internal/proprietary, purchased or licensed from a third party, or part of a consultants' network or cooperative;*

Name of Database	Type of Database		
	Internal/ Proprietary	Third Party	Network or Cooperative
Internal Meketa Database	X		
Morningstar		X	
eVestment Alliance		X	
Thomson Reuters		X	
Preqin		X	

(b) The type of information in the database – investment performance, manager profiles, portfolio holdings or product characteristics, or other (meeting notes, new items, recent changes, etc.);

Name of Database	Type of Information			
	Investment Performance	Manager Profiles	Portfolio Holdings or Characteristics	Meeting Notes, News, etc.
Internal Meketa Database	X	X	X	X
Morningstar	X	X	X	
eVestment Alliance	X	X	X	
Thomson Reuters	X	X	X	
Preqin	X	X	X	

(c) The number of investment managers, funds, portfolios, and/or products/strategies covered by the database;

Name of Database	Number of Managers, Funds, etc.		
	Investment Managers	Funds/ Partnerships	Products/ Portfolios
Internal Meketa Database	2,000		3,500
Morningstar	6,000		10,000
eVestment Alliance	1,270		6,700
Thomson Reuters		3,745	
Preqin		6,100	

(d) How information is entered and updated, by whom, whether the information is verified and how any discrepancies are resolved. Please explain briefly.

Our firm's proprietary database is updated continuously as consultants and analysts meet with managers. In addition, every quarter we send a detailed questionnaire to all of our clients' managers. The purpose of this questionnaire is to determine for each manager if any significant changes have occurred in their firm or among their investment personnel. Monthly, we collect client information from a variety of sources including custody banks, investment managers, and database providers. We collect performance from a client's investment managers as well, and compare performance figures for consistency. When discrepancies are discovered, Meketa Investment Group works with the investment manager and the custodian to determine the source of the differential and to make any necessary adjustments.

Our third-party databases (Morningstar and eVestment Alliance) are updated continuously by the managers and verified by the vendors for accuracy.

47. Please indicate how many times a year the Firm formally met with investment managers (or general partners) on average over the past three years ending [date].

Meetings with Investment Managers	Number of Meetings a Year
On-Site at the Investment Manager's Premises	207
In the Consulting Firm's Offices	513
By Conference Call (lasting at least ½ hour)	100

With how many different investment management organizations did the firm meet over this period?

In total, Meketa Investment Group typically performs approximately 1,000 manager meetings per year which include meeting with managers who currently invest on behalf of our clients as well as prospective opportunities. On average, we meet with approximately 200 to 300 investment managers annually on-site at their offices.

PERFORMANCE EVALUATION AND COMPLIANCE

48. What benchmarks does the Firm use to evaluate the investment performance of a retirement system at the total fund level?

Total Fund Benchmarks	Yes/No
Asset Mix Policy or Target Return	Yes
Return Based on Actual Allocation	Yes
Assumed Actuarial Return or Discount Rate	No
Inflation plus x%	Yes
Return on Pension Liabilities	No
Rank versus Peer Group Funds	Yes
Other (please specify):	No

49. What benchmarks does the Firm use to evaluate the performance of individual asset classes, investment managers and portfolios?

Asset Class & Investment Manager Benchmarks	Yes/No
Broad Market Indices	Yes
Style-Based Indices	Yes
Blend of Publicly Available Indices	Yes
Normal Portfolio to Reflect a Unique Investment Strategy or Process	Yes
Rank versus Peer Group Managers or Portfolios	Yes
Other (please specify):	

- (a) Are there any asset classes, market segments, or investment styles or strategies – e.g., private markets, hedge funds or real assets – for which the Firm CANNOT provide benchmarks to measure performance?*

No. Meketa Investment Group has access to benchmarks across investment styles and market segments. However, in some cases, certain strategies may not lend themselves to a “canned” benchmark, and may require customization. Meketa Investment Group clients employ a number of strategies that are not “benchmark-oriented,” or take strategic bets relative to the market in which they invest. For those portfolios, it is important to separate the effects of these strategic bets (e.g., dividend yield emphasis, avoidance of utility stocks, micro-cap emphasis) from the effects of stock selection. For example, a small capitalization value strategy that does not invest in financial stocks has been compared to the Russell 2000 Value index, excluding financial stocks. This has allowed for a far more straightforward assessment of the manager’s stock picking ability.

- (b) What types of customized benchmarks – such as blended indices, normal portfolios, etc. – can the Firm provide for specialized investment strategies?*

We are capable of developing custom benchmarks for managers and total funds, including appropriate peer group comparisons.

Custom benchmarks may include static blended indices, dynamic blended indices (shadow benchmarks), uniquely defined manager universes, and liability-driven indices. Meketa Investment Group can create a dynamic blended index based on the fund’s actual allocation to real estate, venture capital, and other asset classes/strategies. Meketa Investment Group can also create a static blended index based on the fund’s target allocation to various asset classes.

- 50. What performance measurement databases or systems does the Firm use to measure the performance of the Fund and individual asset classes, investment managers and portfolios against peer groups?**

Meketa Investment Group utilizes seven performance measurement databases. We purchase data from FactSet, Ibbotson, eVestment Alliance, Bloomberg and Morningstar, we have access to an institutional plan sponsor universe and we maintain our own internal database.

Manager and Asset Class Benchmarks

To evaluate investment manager and asset class performance, Meketa Investment Group generally compares performance to three types of benchmarks. The first benchmark is a *broad market index* (e.g., the S&P 500 index for equity managers). This comparison gives information about the broad market conditions under which the manager was operating. Our second comparison is to a *style-specific benchmark* matched to the portfolio’s investment style. For example, a small capitalization value manager would be compared to the Russell 2000 Value index. This comparison refines the analysis provided by the broad market index by focusing more exclusively on the area of the manager’s expertise. Finally, we compare managers to carefully crafted *benchmarks of their peers*. Each of the three types of benchmarks is described in more detail below.

Broad Market Benchmarks

Broad market benchmarks (e.g., the S&P 500 index, Wilshire 5000 index) purport to measure the return of the market as a whole, or at least a substantial fraction of the market. While broad market benchmarks are widely quoted, they pose several difficulties when used to evaluate managers. First, most market indices are capitalization weighted, meaning that the index is dominated by the returns of the largest stocks. For example, approximately 80% of the S&P 500 index's return is determined by the fifty largest stocks, leaving only a small role for the remaining 450 stocks.

Second, market indices are intended to be style-neutral, placing no special emphasis on value stocks versus growth stocks. However, if the largest company shares are predominantly growth companies, as was the case in the late 1990s, then the index acquires a growth stock bias.

And finally, the stocks listed in a broad market index are selected to be representative of all industry groups, regardless of their financial strength or return prospects. Just because a stock is selected for inclusion in an index in no way implies that it is a good investment.

Meketa Investment Group uses broad market indices to evaluate how much of a manager's return can be attributed to the market as a whole. For example, a manager's return of +20% in one year is less impressive if the market, as measured by broad market indices, also returned +20%.

Style-Specific Benchmarks

Some vendors create style-specific benchmarks. Meketa Investment Group uses style-specific benchmarks in much the same way we use broad market indices, to assess how much of a manager's performance is attributable to features of the market as a whole. For example, we would expect a growth stock manager to outperform a value stock manager in a period in which growth stocks as a whole outperform value stocks (based on style-specific indices).

Peer Group Benchmarks

Often, it is useful to compare managers directly to other managers with similar styles and goals. A direct peer to peer comparison, if performed correctly, eliminates any bias due to market trends. For example, it would not be useful to compare a value manager to a growth stock manager in periods when either growth stocks or value stocks are outperforming. However, whether growth or value stocks are leading the market, it is useful to compare growth stock managers to other growth stock managers, and value stock managers to like value stock managers.

Meketa Investment Group uses peer group benchmarks to make like comparisons among managers. We create our own peer group benchmarks internally using public mutual funds to ensure that they are accurate and representative.

Public mutual funds are rigorously audited, and SEC rules require that mutual funds adhere to the specific investment strategy specified in the fund's prospectus. Thus,

mutual fund managers cannot operate as a growth stock fund one day and as a value fund the next.

All of the managers in a peer benchmark are subjected to the same market forces, and all have the same opportunities to prosper. If a manager outperforms his or her peers, then we can be confident that their performance is superior.

(a) How many pension funds are covered in those databases? How many of them are public funds?

Please refer to response to Question 50.

(b) How many investment managers and portfolios/products are included?

Name of Database	Number of Pension Funds, Managers, etc.			
	Pension Funds	Public Funds	Investment Managers	Portfolios or Products
Third-party Institutional Plan Sponsor Universe	1,348	295		
Internal Meketa Database			2,000	3,500
eVestment Alliance			1,270	6,700
Morningstar			6,000	10,000

(c) For each database, please indicate where the data comes from, how it is verified, who calculates the investment returns, and how any errors or discrepancies are resolved.

For both our clients' managers and prospective managers, Meketa Investment Group uses various third-party sources to verify the accuracy of a manager's performance history. Specifically, when conducting investment manager searches, Meketa Investment Group requires that firms submit performance that is CFA Institute GIPS compliant. We carefully scrutinize the performance records that are provided to us by investment managers, including the performance calculation methodology they use.

We look closely at the integrity of the composite that a manager presents to ensure that it is representative of the strategy we are evaluating. This includes looking for dispersion of account returns within the composite, significant deviations in performance from the benchmark, and any considerable changes in the structure of the composite. Lastly, where appropriate, we will call a manager's clients to inquire about the returns that they have achieved with the strategy under consideration.

Our third-party databases are updated continuously by the managers and verified by the vendors for accuracy.

51. Does the Firm provide performance attribution analysis at the total fund level as well as for individual asset classes or portfolios?

Performance Attribution	Yes/No
Total Fund	Yes
Domestic Equities	Yes
International and/or Global Equities	Yes
Domestic Fixed Income	Yes
International and/or Global Fixed Income	Yes
Other (please specify): Alternatives	Yes

52. How does the Firm monitor or track the investment style of portfolios? What style analysis systems or models does it use?

Style Analysis Model	Returns or Holdings-Based	Domestic Equities	Asset Classes (Yes/No)		
			Global Equities	Fixed Income	Other (specify)
Factset	Holdings-Based	Yes	Yes	Yes	NA
Morningstar	Returns-Based	Yes	Yes	Yes	NA

Utilizing a third-party database of equity fundamentals, we calculate each portfolio's fundamental characteristics (price-earnings, price-book value, dividend yield, historical earnings growth, and projected earnings growth) to determine the actual investment style of the manager. We segregate the portfolio by capitalization to determine any tendency toward larger or smaller stocks. We divide the portfolio into industries to see if the manager is placing hidden industry bets, or exposing the fund to undue industry-specific risks.

One of these third-party databases is FactSet, which is a leading provider of global financial and economical information, including fundamental financial data on tens of thousands of companies worldwide. Combining more than 250 databases into a dedicated service, FactSet provides tools to download, combine, and manipulate financial data for investment analysis. In addition, we use Morningstar for returns based analysis.

53. Does the Firm monitor or track the compliance of the client's portfolios with:

If so, how and to what extent?

(a) Investment policies and guidelines of the fund?

Meketa Investment Group monitors compliance with our clients' policies on an ongoing basis, to ensure that the pension plan is meeting its investment objectives and operating as planned. Meketa Investment Group undertakes a comprehensive Initial Fund Review of each new client. The Initial Fund Review includes an examination of the client's existing Investment Policy Statement, asset allocation policy and asset allocation structure; a review of actuarial reports; interviews with the client's investment managers and an examination of their guidelines and fees;

and an assessment of the client's custody relationship(s) and fee structure, among other issues. Meketa Investment Group reports to the Board its assessment of each separate issue, makes appropriate recommendations, and prioritizes these recommendations within a timeframe of six to thirty-six months for implementation. The resulting Initial Fund Review document is typically in excess of sixty pages in length and becomes a useful guide for framing discussions and decision-making for the trustees and consultant.

We believe our role with respect to investment policy development is two-fold: to assist clients in setting their objectives, and to assist clients in achieving those objectives through the development of investment policies and manager guidelines that reflect real-world experience.

The identification and clarification of client objectives includes:

- explicit statement of the purposes of the assets,
- definition of the appropriate time horizon for the assets,
- identification of the degree of liquidity necessary and the funding patterns of the asset pool, and
- review of any legal, tax or special circumstances that affect the investment of the assets.

Once the client's objectives and constraints are identified, a relevant investment policy can be developed. Given that the asset allocation will be the primary determinant of the investment pool's risk and return characteristics, our investment policies focus on that area.

Investment policy development includes:

- extensive evaluation of risk and return attributes for various asset allocations,
- identification of a target asset allocation that best achieves the client's objectives, given their constraints,
- identification of appropriate ranges around which the long-term asset allocation may fluctuate, and
- description of the procedures for monitoring and adjusting the asset allocation over time.

The result of this process is a statement of Investment Policy that describes the fund's return expectations, the types of investment risks that can be assumed, and the rules used to measure these returns and risks. Most importantly, this document includes our recommendations for a long-term asset mix for the Retirement Systems.

Following the Initial Fund Review and Investment Policy development, Meketa Investment Group works with clients on how best to implement long-term strategy, addressing specialist manager roles, use of passive management, and active manager guidelines. The written Manager Guidelines describe in detail the type of investment services that the fund needs to meet its investment objectives.

These manager guidelines list the types of investments to be made and the degree of risk that is acceptable.

The Investment Policy Statement and all manager guidelines will be reviewed at least annually to ensure that their objectives and constraints remain relevant. Further, these documents will be reviewed whenever significant developments in the circumstances of one of the Funds occur. Specifically, the Investment Policy Statement will be reviewed upon each actuarial valuation, and manager guidelines will be updated whenever a new manager is hired or the mandate changes for an existing manager. Finally, our quarterly fund evaluation will include an asset summary page that compares each fund's actual asset allocation to its target allocation.

Meketa Investment Group also develops a number of different investment strategy/policy statements, each customized to our clients' specific needs.

(b) Manager mandates, agreements or contracts?

During the Initial Fund Review, Meketa Investment Group develops a set of Manager Guidelines, which describes in detail the type of investment services that the fund needs in order to meet its investment objectives. These manager guidelines list the types of investments to be made and the degree of risk that is acceptable. The Manager Guidelines document will be reviewed upon each actuarial valuation, and will be updated whenever a new manager is hired or the mandate changes for an existing manager.

(c) Laws and regulations?

Our analysts and consultants review each manager's compliance with written investment guidelines. Meketa Investment Group works with clients to issue written guidelines for each manager that address all relevant laws and regulations, mandated investment styles (i.e., small capitalization value), and specific prohibitions expressed by the client.

The investment regulations governing the Retirement Systems and their interpretation are continuously subject to change. Meketa Investment Group recognizes that a thorough understanding of all laws, rules, and regulations that apply to the Retirement Systems is a critical part of meeting our fiduciary duty.

RESEARCH AND EDUCATION

54. Does the Firm undertake any research on general investment and pension-related issues?

Yes. To serve our clients well, we conduct in-depth internal research on a constant basis. Our research focuses on economics, capital markets, investment strategies, and investor needs. Meketa Investment Group formally revises a model portfolio document on an annual basis. The model portfolio represents our best practices with respect to all aspects of investing institutional assets, a comprehensive manual to guide a pension fund. It addresses dominant issues such as asset allocation, implementation issues (e.g., manager selection) and operational issues (e.g., custodian banking and securities lending). The model portfolio serves to organize all of our research efforts and to focus them on specific ways of improving performance.

We also prepare specialized “white papers” detailing the risks and opportunities implicit in various types of investments. We generally produce six to eight white papers per year that we distribute to our clients.

(a) How many research studies (reports and/or white papers) has the Firm produced over the last three years ending [date] on the following broad topics?

The table below reflects white papers written or updated in the past three years on each topic. In addition, on a quarterly basis, Meketa Investment Group publishes a Global Macroeconomic Outlook, a Capital Markets Outlook, and Market and Industry Analysis for private equity and real assets.

Research Reports/White Papers (Last 3 Years)	Number of Studies
Asset Allocation	2
Asset/Liability Management	0
Equity Markets & Strategies	5
Fixed Income Markets & Strategies	2
Alternative Investments – Private Equity, Hedge Funds, etc.	2
Real Assets – Real Estate, Infrastructure, Commodities, etc.	3
Risk Management	2
Investment Management or Portfolio Structure	4
Performance Measurement	1
Economic Policy	0
Other (please specify):	1

(b) What other types of publications are made available to clients? How frequently are these publications produced?

Other Publications	Frequency of Publication
Economic or Capital Market Outlook	Quarterly
Newsletters	8-10 per year
Client Memos	As needed
Other (please specify): Research Papers	6-8 per year

55. How does the Firm provide education services to board trustees and staff?

Delivery of Education to Trustees/Staff	Yes/No
Regular Board Meetings and Retreats	Yes
Half to One-Day Seminars/Workshops at Client Offices	Yes
Annual Client Conference	Yes
Internet (Webinars)	No
Other (please specify): Research Papers, Newsletters	Yes

What is distinctive about your delivery of education to clients? Please explain briefly.

A significant component of our work as consultants is to provide on-going education to our clients. We welcome the opportunity to work with clients one-on-one or in a group forum at a location convenient to them. Our educational programs take many forms.

Meketa Investment Group considers Trustee education an important part of our job as consultants. All of our education is done on a client-by-client basis. In this way, each client receives Meketa Investment Group's full attention, and all investment seminars are organized specifically for each client.

We believe that an educated Trustee is much more likely to make prudent investment decisions. Consequently, we constantly strive to educate Board members on various investment topics. Our preference is to organize off-site investment seminars for clients, where we can devote uninterrupted time to investment education. However, we realize that many clients simply do not have the time to spend many days each year learning about investment issues. For those clients, we ensure that adequate time is spent at regularly scheduled Trustee meetings to discuss investment issues.

All of our educational work is presented in plain English, and is designed to be useful for non-investment professionals as well as sophisticated investors.

56. What percentage of total revenue did the Firm spend on research and investment technology (software, databases, etc.) on average over the past three years?

Meketa Investment Group has no set policy regarding reinvestment into any one specific business area. However, on average in the past three years, we have invested approximately 20% of our annual revenues into research and technology functions.

LITIGATION AND INSURANCE

- 57. Has the Firm, or any officer, principal, or employee of the Firm or an affiliated company, ever been investigated and/or charged by the Securities and Exchange Commission ("SEC"), the U.S. Department of Labor ("DOL"), or any other regulatory authority for violation of applicable laws? If so, please explain.**

Neither Meketa Investment Group nor any officer, principal or employee of the firm has ever been investigated and/or charged by the Securities and Exchange Commission ("SEC"), the U.S. Department of Labor ("DOL"), or any other regulatory authority for violation of applicable laws.

- 58. Has the Firm, or any officer, principal, or employee of the Firm, ever been involved in any business litigation or other legal proceeding? If so, please explain and indicate the current status of the litigation.**

Neither Meketa Investment Group nor any officer or principal has ever been involved in business litigation or other legal proceeding. To the best of our knowledge, none of the firm's employees have ever been involved in any business litigation or other legal proceeding.

- 59. Does the Firm, or any officer, principal, or employee of the Firm, have any lawsuits pending against it concerning the delivery of investment consulting or related services for any client? If yes, please explain.**

Neither Meketa Investment Group nor any officer or principal have any lawsuits pending against it concerning the delivery of investment consulting or related services for any client. To the best of our knowledge, none of the firm's employees have any lawsuits pending against them concerning the delivery of investment consulting or related services for any client.

- 60. What level of insurance coverage does the Firm have for professional liability or errors and omissions, and other types of liability insurance?**

Type of Insurance Coverage	Name of Carrier	Aggregate Coverage	Coverage per Claim
Professional Liability or Errors & Omissions (E&O)	Houston Casualty Co., Liberty Mutual Insurance Co.	\$20 m	\$150,000
Directors' & Officers' Liability	Houston Casualty Co., Liberty Mutual Insurance Co.	\$20 m	
Fiduciary Liability	Hanover Insurance Co.	\$25 m	\$500,000 - \$1,000,000
Fidelity Bond	Included with Fiduciary Liability		
Other (please specify):			

PERFORMANCE

61. Please provide the following information on the investment performance for the 5-year period ending June 30, 2012 of your full service public pension fund clients (where full service is defined to include advice on asset allocation, investment manager selection and performance measurement) which are similar in size to the City of Fresno Retirement Systems (i.e. \$1-10 billion). Note that we are asking for the simple unweighted average performance for all of these public pension client funds as a group, not the performance of each individual fund.

Performance Information for 5-Year Period Ending June 30, 2012	
Number of Full-Service Public Pension Fund Clients*	5
Average Total Fund Return	1.4%
Average Asset Mix Policy Return	1.3%
Average Excess Return (Total Fund – Asset Mix Policy)	+0.1%
Average Volatility (Standard Deviation) of Total Fund Return**	18%

For the same five full-service public pension fund clients, please find below our three-year and one-year performance as of June 30, 2012 versus the average asset mix policy return.

Performance Information – Annualized as of June 30, 2012	1 Yr	3 Yrs
Average Total Fund Return*	-0.1%	11.1%
Average Asset Mix Policy Return	-0.7%	10.7%
Average Excess Return (Total Fund – Asset Mix Policy)	+0.6%	+0.4%

* Performance shown above includes all full service public fund clients of similar size to the City of Fresno Retirement Systems and may include clients which have not been a client of Meketa Investment Group for five years.

** Calculation used for the Average Volatility (Standard Deviation) of Total Fund Return is the straight average of the standard deviations of the annual calendar year returns from 2007-2011 for each client in the composite above.

MEKETA INVESTMENT GROUP

PHILOSOPHY AND APPROACH TO CONSULTING

PART C: PHILOSOPHY AND APPROACH TO CONSULTING

1. *What is the overall philosophy of the firm regarding an investment consultant's relationship with the board of trustees, staff and investment managers?*

Since the inception of the firm, we have been guided by the principles of excellence, integrity, and fiduciary responsibility. Meketa Investment Group is committed to offering independent advice, that is free of conflicts of interest. We work only for our clients and serving our clients' best interests is our only goal. To protect the Board members, who otherwise would shoulder all of the responsibility, Meketa Investment Group accepts fiduciary responsibility in our role as investment consultant.

We recognize that each client may require different levels of service. With some of our most successful client relationships, we have essentially become an extension of their Board and its Staff. We are willing and able to be extremely hands-on if requested to do so. We recognize that the Staff has many other duties outside of investment coordination, and we seek to leverage our expertise to solve problems of inefficiency and reduce the Staff's workload in our area of expertise.

The depth and quality of the Meketa Investment Group investment staff allows for high quality client service. We provide immediate and detailed responses to all inquiries from our clients. We maintain a very low client-to-consultant ratio. As a result, each of our clients is assured personal attention from one of several consultants, analysts, and support staff. We attend all meetings at which our presence is requested, and our responsibilities related to other clients will never interfere with our charge to provide the most comprehensive, personalized consulting services possible for the client.

Meketa Investment Group is committed to ensuring that each client receives the attention of experienced consulting staff members. We utilize a team approach which ensures that a number of experienced individuals are familiar with the circumstances and complexities of each client's account. This approach also ensures that we are able to meet with clients in person on a schedule that best meets their needs.

Meketa Investment Group maintains an ongoing dialogue with all of our clients regarding pertinent developments in the investment markets. We view ongoing client communication and education to be an essential component of the services provided by an investment consultant. These communications range from formal memoranda to telephone conversations to in-person discussions at our client's Board meetings.

Communication between Meketa Investment Group and investment managers is on-going. Once an investment manager is hired, we *continuously* monitor and evaluate the firm, the strategy, and the team. Our communication with managers includes conference calls, meetings at our offices, on-site visits, quarterly manager questionnaires, and on-going collection of holdings data and investment performance.

2. *State as clearly as possible the firm's investment philosophy. Are there any fundamental beliefs about capital markets which underpin the firm's investment advice to its pension plan clients? What are the critical issues to consider in establishing the investment policy for a public pension plan?*

Most investment consultants do not take an active role in the funds they serve. To limit their own liability, these consultants offer only "arms length" advice.

Since 1978, Meketa Investment Group has been providing investment consulting services to our clients. During this time, we have assisted our clients in managing investment programs that have produced strong investments returns based on a prudent philosophy.

We believe in taking a long-term approach to investing, recognizing asset allocation will be the largest determinant of performance. We look to diversify broadly to protect against a wide variety of risks and avoid unnecessary risks. We believe long-term investors should invest in generative assets (equities) and approach new investment strategies or fads with skepticism. Within these constraints, we also believe that, at the margins, there are times when mispricings or opportunities in the market may require a Fund to be nimble, and, if prudent, act more tactically, to take advantage of those moments in time.

We believe clients can benefit from utilizing passive management in more efficient asset classes to achieve broad diversification with low management fees and low operating costs. Where active management is utilized, we seek to identify best-in-class managers through our thorough due diligence process that includes on-site visits and multiple points of on-going contact.

We also believe that risk should be managed much more holistically than many consultants approach it. We have developed, and continue to develop, proprietary methods such as Economic Regime Management®, and Quality, Stability and Income® (QSI) indexing methodology, to help our clients achieve their objectives in the most efficient way possible.

Essentially, we believe running a pension fund is no different than running any other business. You succeed by careful planning, attention to details, using the best people, moderating risks, and minimize fees and expenses, which is the surest way to increase investment returns.

We believe our role as investment consultant is two-fold: to assist clients in setting their objectives, and to assist clients in achieving those objectives. We achieve this through the three broad components of our services: Strategic Investment Advice, Fund Coordination, and Specialized Consulting Services. Strategic Investment Advice and Fund Coordination are essential for a successful investment program. Specialized Consulting Services are designed to add significant value for those clients for whom the services are appropriate.

We believe the most challenging issues for all of our clients are:

1. **Publicity (anti DB feelings)** – The defined benefit structure, which the private sector continues to trend away from, is often portrayed in the press as overly generous, inflexible, and no longer viable. However, the risks associated with alternative plans (i.e., defined contribution) should not be discounted, including limited/no required savings levels, lower returns on average relative to defined benefit plans, and greater dispersion among returns, on average.
2. **Funding/regulation (limited ability to change benefit levels)** – Current funding levels, the combined result of previously promised benefits and low investment returns (notably over the last ten years) have reached critically low levels for some municipalities. Regulations/laws limit a municipality's ability to change benefit levels, resulting in larger inputs from: (1) investment returns, or (2) appropriations/contributions. Given the current state of the U.S. economy, increasing contributions to defined benefit plans will likely remain challenging for some time. Additionally, with the continued rebound in the global markets, expecting increased investment does not offer a strong alternative. As a result, further debate with regards to modifying benefits is likely.
3. **Investment Return** – Hurdle rates of return, whether they be actuarial- or formula-based (multiples) are not always achievable. These expectations have not changed to keep pace with expectations of pension plans. In the years to come, there is likelihood that funds will not meet their targets. There are various ways a pension plan can attempt to mitigate these issues. Meketa Investment Group recommends that plans reduce overall portfolio expenses and increase exposure to illiquid investments. There are several ways that plans can reduce expenses such as utilizing passive managers and negotiating lower manager and custodial fees. In addition, plans should consider exposure to or increasing allocations in illiquid investments that can produce higher expected returns than traditional investments.
4. **Interest Rates** – The current low interest rate environment presents yet another headwind for pension fund plan sponsors today. Allocations to fixed income investments offer lower yields, thus lowering overall total portfolio expected returns for investors. For now, this creates a challenge in achieving long-term target returns (we are not discounting the probability that this may be the case for some time). Further, in the event interest rates begin to rise, this will challenge returns for fixed income investors. Lastly, if rates rise significantly, as a result of the considerable balance sheet expansion by the Fed, fixed income returns may be severely impaired. We believe building a diversified fixed income portfolio, structured to weather numerous scenarios, is a critical component to investment a long-term portfolio today.

5. **State Budget Issues** — With funded ratios down, lower expected returns on global assets, and limited benefit flexibility, there will be greater pressure for increased appropriations/contributions by municipalities. However, the current condition of many state's budgets limits flexibility. Without denying current retirees or current employees' earned benefits, states must find a way to reduce the burden of the pension system on their budgets.
6. **Governance/Conflicts of Interest** — Plans must employ a high level of due-diligence in each decision that is made with respect to its investments. Implementation of a policy statement inclusive of expectations along with roles of all parties involved helps to establish appropriate governance, and limit the potential for conflicts of interest. Consultants must be independent and objective. Meketa Investment Group is independently owned, and does not have any financial relationships with investment managers, brokers, banks, or actuaries. We do not receive soft dollars or any brokerage commissions. Unlike other consulting firms, we do not sell any services to the investment management industry. 100% of the firm's revenues are derived from our clients. Our independence allows us to provide clients with unbiased advice.
3. *Please summarize, in one page or less, the firm's investment consulting capabilities and expertise. What are the firm's major strengths and limitations? Do you provide any services which are not provided by other investment consultants? Why should the retirement system engage you as its investment consultant?*

Below are areas in which we believe are our firm's key strengths and competitive advantages:

Investment Consulting Focus & Fiduciary Responsibility — Meketa Investment Group is 100% committed to providing investment advisory services. It is our only line of business and has been since the inception of the firm thirty-four years ago. Meketa Investment Group acts in a *Fiduciary* capacity for all of the services we provide to our clients.

Independent, Objective Advisors — Consultants must be independent and objective. Meketa Investment Group is independently owned, and does not have any financial relationships with investment managers, brokers, banks, or actuaries. We do not receive soft dollars or any brokerage commissions. 100% of the firm's revenues are derived from our clients.

Employee-Owned Firm — Meketa Investment Group is independently owned by its senior professionals. Team continuity is paramount to our firm and most importantly our clients. As such, Meketa Investment Group is structured to maintain stability of its key investment professionals.

Consulting Experience — Meketa Investment Group has been providing investment and consulting advice since it was hired by its first pension fund client in 1978, a relationship which continues to this day. Meketa Investment Group began consulting for public funds in 1998, when it was hired by a public pension fund, which remains a client today. Currently, we work with twenty public pension fund clients, located throughout the country, who have aggregate assets in excess of \$430 billion. We understand the public fund marketplace and the Board's responsibilities to the Retirement Systems, their missions, and goals.

Additionally, Meketa Investment Group actively participates in several public pension plan industry events nationwide. We are currently affiliated with the following organizations that keep us apprised of unique issues and developments affecting public employee retirement systems:

- National Conference on Public Employee Retirement Systems (NCPERS)
- Michigan Association of Public Employee Retirement Systems (MAPERS)
- Massachusetts Association of Contributory Retirement Systems (MACRS)
- Connecticut Public Pension Forum (CPPF)
- State Association of County Retirement Systems (SACRS)
- Florida Public Pension Trustees Association (FPPTA)
- Texas Association of Public Employee Retirement Systems (TEXPERS)

Customized Service — With 103 employees, including 60 investment professionals, Meketa Investment Group has a very low client-to-staff ratio. This allows us to offer our clients the intensive level of service that they deserve. Each of our clients is assured personal attention from one of several consultants, analysts, and support staff. We provide immediate and detailed responses to all inquiries from our clients. We attend all meetings at which our presence is requested, and our responsibilities related to other clients will never interfere with our charge to provide the most comprehensive, personalized consulting services possible to the Retirement Systems.

Operational Research — Meketa Investment Group has always offered a different approach from that of other consultants. In addition to traditional strategic investment advice services, Meketa Investment Group provides fund coordination services that are often not offered by other consultants. These are intensive, time-consuming services that Meketa Investment Group is staffed to perform because of our low client-to-staff ratio. These services include: manager transition supervision, Trustee protection, Crisis Response Plans, centralized cash coordination, cash flow management, control of unusual events, and fee negotiations. These services enable our clients to control costs, reduce risks, and enhance the performance of their funds.

4. *What do you consider the unique attributes of: (a) your asset allocation methodology, and (b) your investment manager search process? How do these distinguish your firm from other investment consulting organizations?*

Asset Allocation Methodology - Meketa Investment Group employs a risk-focused, multifaceted approach to asset allocation. That is, we analyze assets and liabilities using both stochastic and deterministic analysis. While stochastic analysis provides information on a broad spectrum of asset/liability outcomes, it tends to underestimate the frequency and severity of large negative and positive events. Consequently, relying solely on stochastic analysis can cause decision-makers to underestimate the risk associated with various asset allocation policies. Meketa Investment Group corrects for this by using two types of deterministic analysis: scenario analysis and Economic Regime Analysis. Scenario analysis allows us to “stress test” asset/liability outcomes for severe market events. Economic regime analysis allows us to view the performance of assets and liabilities within the context of discrete economic environments.

Manager Search Process— Meketa Investment Group’s manager research team is comprised of senior investment professionals, including former portfolio managers and research analysts. When conducting manager searches, we do not rely solely on a “preferred list” or a “stable” of investment managers. Instead, we employ a rigorous due diligence process to identify top flight managers to meet our clients’ objectives. We intensively follow the universe of institutional quality asset classes, including domestic equity, developed foreign equity, emerging markets equity, fixed income, real assets, hedge funds and other alternatives.

5. *Please summarize the firm’s capabilities and expertise in value-added and opportunistic real estate investments, and its due diligence process for manager searches in this asset class.*

Meketa Investment Group has been providing real estate investment consulting services to institutional clients for over nineteen years and public pension funds since 1998. We currently oversee real estate commitments for forty clients with committed assets exceeding \$3.9 billion. Our clients invest with over 60 different real estate managers in over 100 unique strategies. Our clients invest across the full spectrum of real estate strategies, including core, value-added, opportunistic, international, REITs, CMBS, PPIP, timber and mortgages, among others.

Meketa Investment Group offers real estate consulting services to assist clients in designing custom, diversified portfolios of real estate investments. Meketa Investment Group serves clients in both non-discretionary (recommending) and discretionary (selecting) roles. Our real estate consulting services provide all the necessary components for clients to successfully implement custom real estate programs.

Initial work includes defining the appropriate role of real estate within the client’s overall investment portfolio, and identifying the types of strategies that fit that role. Implementation of the strategy involves carefully assembling a diversified group of real estate portfolios. Investments are monitored continuously as they distribute income and gains or require additional funding. Meketa Investment Group’s real estate consulting

service ensures that real estate investments are diversified and tailored to a client's risk tolerance and need for liquidity.

Our real estate consulting services are classified into two categories: Program Design and Program Implementation.

Custom Program Design	Custom Program Implementation
<ul style="list-style-type: none"> • Strategic Planning & Policy Development • Pacing Analysis • Partnership Analysis • Manager Evaluation & Selection • Legal Review • Negotiating Terms and Fees • Client Communication • Board Education 	<ul style="list-style-type: none"> • Cash Flow Coordination • Program Monitoring and Review • Annual GP Meeting Attendance • Partnership Amendments • Advisory Board Representation • Client Reporting

Our expertise in providing these services reduces the cost to the client in researching, performing due diligence, monitoring, reporting, and the administration of real estate investments.

We seek to apply our knowledge and experience in practical ways to improve our clients' portfolios. As a broad investment consultant, we are able to apply the knowledge and experience of the organization to help improve the clients' portfolios.

Meketa Investment Group's due diligence process for manager searches has four stages: Initial Screening, Phase I Analysis, Phase II Analysis, and Phase III Analysis. Our Private Markets Investment Committee (PMIC) must have a unanimous approval vote by the six voting members for every investment. A three person subset of the PMIC has membership in each asset class committee.

Initial Screening - Due to our reputation, Meketa Investment Group has historically received documentation on the majority of partnerships deemed to be of institutional quality. Most often, we will receive a Private Placement Memorandum (PPM), but other documents or marketing materials may initiate due diligence. Proactively, we seek information on all attractive investments identified via databases, trade publications, relationships, and conferences. As information or documents are received, investment terms are entered into our customized EquiTrak database. Investments are then assigned to team members who will serve as "Sponsors," driving the day to day due diligence for the investment opportunity.

Phase I - Phase I analysis determines whether or not an investment has attractive characteristics and if it fits within our clients' strategy and portfolio structure. For each fund, Sponsors prepare a Phase I Review, a three to five page summary report of the opportunity that is automatically assembled from populated fields in EquiTrak. Each Monday, team meetings are conducted where the most recently created Phase I Reviews are discussed. The Sponsor leads a discussion of the investment and receives input on the perceived strengths and weaknesses of the investment. At this point, a decision is

made by the team on whether to pursue a meeting with the manager in our offices. As with all decisions that are part of the process, this will be recorded in the database. If the view is favorable, the Sponsor conducts a meeting with key investment professionals, and records it with comprehensive notes that are distributed company-wide and placed in the database. The fund is then discussed again at a team meeting and consensus is needed to propose this fund to the PMIC, which must vote unanimously to advance fund to the next phase.

Phase II - Phase II analysis probes competitive advantages in the market ahead and seeks to answer the question: “What is special about this opportunity?” In this phase of due diligence, we seek to know the professionals, their strategy, and their track record in extreme detail. Analysis continues by sending our comprehensive Due Diligence Questionnaire (“DDQ”) to the target fund manager, reviewing the DDQ response, making preliminary reference calls, and scheduling an onsite visit with key professionals at the manager’s offices. These visits involve extensive meetings with professionals, discussing questions that remain from the DDQ, reviewing portfolio investments in detail, and touring the facilities. When appropriate, the negotiation of investment terms begins at this stage. The attendees record their impressions from the meeting in the database where they are viewed by the team and respective committees. If favorable information is obtained from the onsite visit, work is begun on a Sponsor Recommendation, a fifty to seventy page document that explores the opportunity in greater detail. If, for example, a partnership has already made investments after a first closing, these early investments are examined here. A draft of the Sponsor Recommendation is presented to the PMIC as further reference checks are completed. In person, the Sponsor will present the fund to the PMIC for a vote to Phase III, along with the Committee’s recommended size of investment.

Phase III - Phase III analysis seeks to ensure that no detail is missed by resolving any remaining issues with the investment. At this stage, the Sponsor Recommendation is reviewed further and amended with any additional analysis requested by the PMIC. During Phase III, each Sponsor completes further reference calls and documents the results. Background checks are performed on key professionals, and legal documents are sent to counsel for review and suggested revisions.

Final Approval - The PMIC makes a final decision to recommend the investment, to decline or recommend against the investment, or to conduct further analysis if no decision can be made due to insufficient information or lack of consensus. Further, the PMIC will approve or modify the recommended investment size. Unanimous approval is required for all investment and commitment size decisions.

Meketa Investment Group has developed an extensive and customized database of invested private markets managers and those currently soliciting capital. The EquiTrak Portfolio Management System (“EquiTrak”) serves as a central information source for all private markets processes including cash flow coordination and client reporting, but is also particularly useful for investment manager search and evaluation. Approximately 1,500 funds are currently tracked in our private equity database. The EquiTrak database allows us to analyze funds by investment strategy, process, resources, track record, terms and conditions, etc. as well as to track key diversification data points such as vintage year, region, strategy, industry, etc.

6. *Describe the plans for managing the future growth of the firm, including limitations, if any, on the number of clients that the firm intends to accept.*

In the future, we anticipate that Meketa Investment Group will continue to grow as a nationally recognized independent consulting firm, due to the high level of service we provide to all of our clients. Meketa Investment Group has a long standing commitment to excellence. We will never compromise the quality of our work in order to grow. We accept new assignments only if we believe we can offer client services of the highest caliber. Meketa Investment Group intends to continue to expand the ownership of the firm to other senior professionals.

7. *If the firm or any affiliate provides services other than investment consulting, please explain briefly what policies or procedures the firm has established to avoid or mitigate any potential conflicts of interest that could arise in providing advice to its pension plan clients.*

Meketa Investment Group does not provide services other than investment consulting. For some private markets clients, we provide this service on an advisory (i.e., non-discretionary) basis. For others, we assume the fiduciary responsibility of managing their private markets program on a discretionary basis. These discretionary accounts are customized and managed on a client-by-client basis.

We are an independent firm deliberately structured as such to avoid conflicts and control the objectivity of our services. Meketa Investment Group prides itself on behaving ethically, honestly, and with the highest degree of integrity in all of its business dealings. In an industry with its share of conflicts, Meketa Investment Group works consistently to avoid even the perception of conflict of interest.

8. *Explain how the consulting team assigned to this account would function, including lead consultant, back-up, quality control and support services.*

Mika Buffington Malone and Laura Wirick will serve as the primary consulting team that would service the Retirement Systems. Stephen McCourt would also act as a back-up consultant on the account, and would be available for meetings as necessary. In addition, a dedicated analyst would be assigned to the account. All four individuals are located in our San Diego office, within easy driving distance of the Retirement Systems' offices and meetings. All of Meketa Investment Group's services are provided on a team basis from our offices in Westwood, Miami, and San Diego. Meketa Investment Group utilizes a team structure that provides each client with multiple investment professionals familiar with the account at all times. This results in a built-in back-up function, improved quality control, and effective and efficient client service.

9. *How would you suggest that we measure and evaluate your performance as an investment consultant?*

To measure a consultant's performance, the Retirement Systems should evaluate the System's investment performance, the level of diligence exercised by the consultant, and the quality of our relationship with the Retirement Systems.

To gauge investment performance, the Systems' performance should be compared against the policy objectives determined by the Board. These objectives should be outlined when conducting a review of the Systems' Investment Policy, and should include an investable alternative for the Systems. This alternative could be a blended benchmark of passive market indices that represent either the target asset allocations set forth in the Policy, a generic asset allocation for long-term plans, or the System's current asset allocation targets. Ideally, performance should be compared over a time period of at least three to five years (i.e., a full market cycle).

To evaluate our performance over shorter-term periods, the Board could assess the level of diligence exercised by Meketa Investment Group. For example, the Board could track the number of their investment managers with whom we meet annually. Further, the Board could measure the explicit cost savings it has received through Meketa Investment Group's supervision of manager transitions and fee negotiations. The Board can also evaluate if we have been responsive to their requests and have provided a satisfactory level of education and training.

MEKETA INVESTMENT GROUP

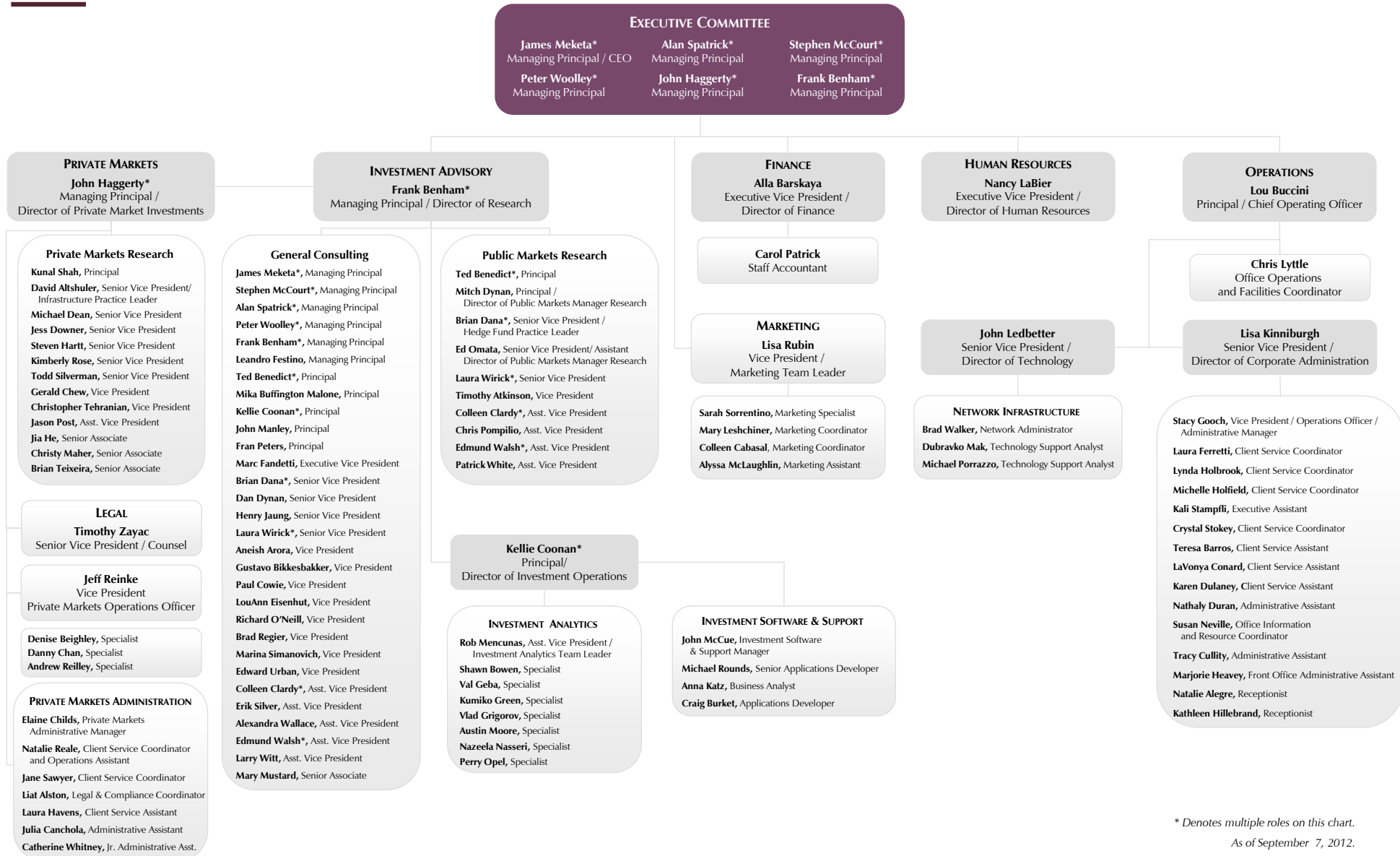
ADDITIONAL DOCUMENTS AND MATERIALS

APPENDIX A

MEKETA INVESTMENT GROUP ORGANIZATIONAL CHART AND INVESTMENT PROFESSIONALS



M E K E T A I N V E S T M E N T G R O U P
B O S T O N M I A M I S A N D I E G O



* Denotes multiple roles on this chart.

As of September 7, 2012.

100 LOWDER BROOK DRIVE • SUITE 1100
WESTWOOD MA 02090
781 471 3500 • FAX 781 471 3411

1001 BRICKELL BAY DRIVE • SUITE 2000
MIAMI FL 33131
305 341 2900 • FAX 305 341 2142

5796 ARMADA DRIVE • SUITE 110
CARLSBAD CA 92008
760 795 3450 • FAX 760 795 3445

www.meketagroup.com

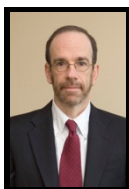
**CONSULTANTS****James E. Meketa - Managing Principal**

Mr. Meketa founded Meketa Investment Group in 1978 to provide a broad range of strategic investment advisory services to institutional clients. Mr. Meketa received his undergraduate degree from Harvard University, and served for many years with the Harvard Management Company, which manages the University's multi-billion dollar endowment portfolio.

Mr. Meketa has over thirty-five years of experience advising investment funds, and serves as the lead consultant on various defined benefit and health & welfare funds, with Taft-Hartley, non-profit, and endowment plan sponsors. His work includes investment policy design, asset allocation modeling, and analysis of manager and fund performance.

Mr. Meketa is also a member of the firm's Private Markets Investment Committee. In this role, he is involved in various aspects of policy development, and in the due diligence for each fund that is ultimately recommended for client investment.

Mr. Meketa served as a member of the Investment Committee of the Shady Hill School, as an Overseer of Boston's Museum of Science, and as a member of the Museum's Finance and Investment Committees. Mr. Meketa is a member of the American Australian Association and the American Association for the Advancement of Science. He is a frequent speaker at industry events, including the International Foundation of Employee Benefit Plans, the Advanced Trustee Institutes, and various CFA Societies.

**Alan Spatrick, CFA - Managing Principal / Compliance Officer**

Mr. Spatrick joined Meketa Investment Group in 1980. He received an undergraduate degree from Brandeis University with a concentration in Economics and the Chartered Financial Analyst designation from the CFA Institute.

Mr. Spatrick serves as the lead consultant on various defined benefit and health & welfare funds, with Taft-Hartley, non-profit, and corporate plan sponsors. His work for the firm includes investment policy design and asset allocation modeling, in addition to analysis of manager and fund performance. Mr. Spatrick is a member of the firm's Private Equity Investment Committee.

Prior to joining Meketa Investment Group, Mr. Spatrick was employed by the North Shore Economic Council and by Temple, Barker, and Sloane, an economic consulting firm. In addition, he served as the Treasurer and as Chairman of the Board of the Coolidge Corner Theater Foundation. He is a member of the Boston Security Analysts Society, the CFA Institute, and the International Foundation of Employee Benefit Plans. In September 2002, Mr. Spatrick's paper, "Endpoint Bias and the Generation of Expected Returns" was published in the Employee Benefits Journal.

**Peter S. Woolley, CFA, CLU, ChFC - Managing Principal**

Mr. Woolley joined Meketa Investment Group in 1996, and has been in the industry for twenty-four years. He completed his MBA degree with honors at Boston College's Carroll School of Management. He received his undergraduate degree from Dartmouth College, and has received the Chartered Financial Analyst designation from the CFA Institute.

Mr. Woolley is a Managing Principal of Meketa Investment Group and a member of the firm's Private Markets Investment Committee. His areas of expertise include investment policy development, asset allocation, and alternative investments including, private equity, private real estate, and infrastructure.

Mr. Woolley works with several clients with significant investments in alternative asset classes and is integral to the development and oversight of customized alternative investment programs.

He is a member of the Boston Security Analysts Society, the CFA Institute, the International Foundation of Employee Benefit Plans, the Massachusetts Association of Contributory Retirements Systems, and a former member of the New England Employee Benefits Council, and the Dartmouth College Alumni Council. He is a speaker at industry events, including the International Foundation of Employee Benefit Plans, the Dow Jones Private Equity Analyst Infrastructure Summit, the Institutional Real Estate, Inc. Investing in Infrastructure Conference and the Advanced Trustees Institute.

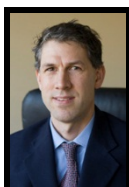
**Stephen P. McCourt, CFA - Managing Principal**

Mr. McCourt joined Meketa Investment Group in 1994. He received his graduate degree, a Master of Liberal Arts (ALM) in History, from Harvard University, and his undergraduate degree in Economics and Political Science from the University of Vermont.

Mr. McCourt received the Chartered Financial Analyst designation from the CFA Institute and currently serves as the Vice President and Program Chair of the CFA Society of San Diego. In addition, he is a member of the CFA Institute and the International Foundation of Employee Benefit Plans.

Mr. McCourt is a Managing Principal and serves as the lead consultant for several institutional funds, with public, Taft-Hartley, endowment, non-profit, and corporate plan sponsors. His consulting work includes investment policy design, strategic and tactical asset allocation modeling, asset-liability modeling, investment education, and investment manager analysis. In addition, Mr. McCourt is a member of the firm's Private Markets Investment Committee and is integral to the development and oversight of customized private markets programs.

Mr. McCourt speaks at numerous industry events including the Investment Education Symposium, the Corporate Funds Summit, the Endowment and Foundation Forum, the Global Investing Summit, the Private Equity Summit, and the International Foundation of Employee Benefit Plans (IFEBC) Annual Employee Benefits Conference. Mr. McCourt's research papers entitled "Monitoring Investment Managers" and "Pension Fund Investing and the State of American Public Finance" have been published in the IFEBC's Employee Benefit Issues publication.

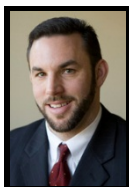
**CONSULTANTS, (CONT.)****John A. Haggerty, CFA – Managing Principal / Director of Private Market Investments**

Mr. Haggerty has been in the financial services industry since 1993, joined Meketa Investment Group in 1996, and carries consulting, management, and research responsibilities. He chairs the firm's Private Markets Investment Committee (PMIC) and oversees the firm's due diligence in this area, which has resulted in over \$1 billion in annual client commitments.

The PMIC governs client portfolio management, commitment pacing, strategic policy, and approval of individual investments. Mr. Haggerty is a member of the firm's Private Equity, Private Debt, Real Estate, Infrastructure, and Natural Resources Investment Committees.

Mr. Haggerty became a Chartered Financial Analyst in 1998 and is a member of the CFA Institute, the Boston Security Analysts Society, and the Pension Real Estate Association. He serves on the Advisory Board of select buyout and venture capital limited partnerships. Mr. Haggerty speaks at numerous industry events, including those sponsored by the International Foundation of Employee Benefits, Dow Jones, and Private Equity International.

Mr. Haggerty held previous positions at IBC/Financial Data and The Boston Company. He is a graduate of Cornell University.

**Frank Benham, CFA, CAIA – Managing Principal / Director of Research**

Mr. Benham joined Meketa Investment Group in 1999. As Director of Research, Mr. Benham oversees all research projects, including white papers and the firm's annual asset study. Mr. Benham leads the design of the firm's portfolio construction initiatives and he is key in constructing customized investment programs. Mr. Benham is a member of the firm's Investment Policy Committee, Private Markets Investment Committee, Infrastructure Investment Committee, and Natural Resources Investment Committee.

Mr. Benham received an undergraduate degree in Finance from Bentley College. He holds the Chartered Financial Analyst designation, and he is a member of the CFA Institute and the Boston Security Analysts Society. Mr. Benham also holds the Chartered Alternative Investment Analyst (CAIA) designation and is a member of the CAIA Association. Prior to joining Meketa Investment Group, Mr. Benham was employed at State Street Bank, performing operations analysis and developing process improvements.

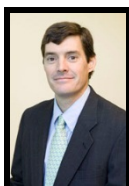
Mr. Benham has served as a frequent speaker at industry events, including: the International Foundation of Employee Benefit Plans Annual Conference, the NCPERS Annual Conference, Investment Forum for Endowments, Foundations and Pension Funds, the Endowment and Foundation Forum, the Made in America Conference, the Institutional Investor Public Funds Roundtable, the Institutional Investor Global Real Assets Forum, the Institutional Investor Infrastructure Investment Forum, the SuperReturn Latin America conference, the Institutional Real Estate VIP conference, and the Investing in Infrastructure Assets Europe and Americas conferences.

**Leandro A. Festino, CFA, CAIA – Managing Principal**

Mr. Festino joined Meketa Investment Group in 2003. He heads the firm's Miami office, and has been involved in the investment consulting industry since 1999. A Managing Principal of the firm, Mr. Festino advises various non-profit and for profit clients, including endowment, foundation, defined benefit, and defined contribution funds. His consulting work includes investment policy design and asset allocation modeling, in addition to analysis of manager and fund performance. He supports the Private Markets team conducting due diligence on Latin American partnerships.

An avid tennis player who has competed in NCAA and professional tournaments, Mr. Festino received an MBA degree with honors from Boston College and a summa cum laude undergraduate degree in Economics and Mathematics from the University of Evansville.

A speaker at industry events, Mr. Festino holds the Chartered Financial Analyst designation, and is a member of the CFA Institute and the CFA Societies of Miami and South Florida. He also held several leadership positions at the Board of the CFA Society of San Diego between 2007 and 2011, including serving as the Society's President. Mr. Festino also holds the Chartered Alternative Investment Analyst (CAIA) designation and is a member of the CAIA Association. He is a member of the Texas Association of Public Employee Retirement Systems, and the Florida Public Pension Trustees Association, where he serves on the Advisory Board.

**Ted G. Benedict, CFA, CAIA – Principal**

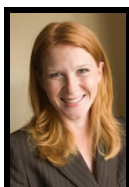
Mr. Benedict joined Meketa Investment Group in 2007, and has been in the financial services industry for sixteen years. He received his undergraduate degree in Economics from St. Lawrence University. Mr. Benedict has received the Chartered Financial Analyst designation from the CFA Institute and is a member of the CFA Institute, as well as the CFA Society of San Diego. Mr. Benedict also holds the Chartered Alternative Investment Analyst (CAIA) designation and is a member of the CAIA Association.

Mr. Benedict serves as the lead consultant on various defined benefit and defined contribution funds, Foundations and Endowments. His consulting work includes investment policy design, asset allocation modeling, defined contribution plans, and manager research.

Prior to joining Meketa Investment Group, Mr. Benedict was employed at Pacific Life, performing investment management research, fund coordination, and implementation of the firm's asset allocation program. Outside of the office, Mr. Benedict serves as a Trustee on a local Foundation, and enjoys spending time with his family.



CONSULTANTS, (CONT.)



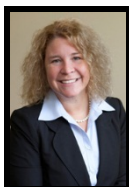
Mika Buffington Malone – Principal

Ms. Malone joined Meketa Investment Group in 2004. A Principal of the firm, Ms. Malone currently works as the lead consultant on a variety of clients on their Defined Benefit, Endowment, and Defined Contribution plans.

Her work includes developing asset allocation policies, selecting investment managers, and developing investment strategy for clients. Ms. Malone also coordinates the research and inclusion of transition managers for the use of our clients. Additionally, she is a member of the firm's Compliance, Defined Contribution, and Sustainability Committees.

Prior to joining Meketa Investment Group, Ms. Malone was employed as a portfolio assistant in the Treasury department for Clark Construction, Inc. Ms. Malone received an MBA from the University of San Diego, with a concentration in Finance, and an undergraduate degree in English, with honors, from the University of Maryland. Additionally, she sits on the Associate Board for San Diego Youth Services and volunteers with multiple organizations in the San Diego area. Outside the office, Ms. Malone is a competitive rider at hunter/jumper horse shows, and enjoys running half marathons and trail races.

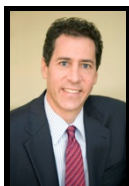
Ms. Malone is an active speaker at investment industry conferences, including the International Foundation of Employee Benefit Plans (IFEBC), Opal, and Informational Management Network (IMN) events. She has recently spoken on a variety of topics ranging from Liability Driven Investing, to Global Investment Outlook, to Transition Management. Ms. Malone is currently enrolled in the CAIA Program as a Level II candidate.



Kellie L. Coonan – Principal / Director of Investment Operations

Ms. Coonan joined Meketa Investment Group in 1998. She is responsible for managing the firm's Investment Operations Department, and also acts as a consultant, working directly with clients. Most recently, Ms. Coonan has led the firm's major technological infrastructure project, which significantly enhances our analytic capabilities.

Ms. Coonan graduated from Salve Regina University with a bachelor's degree in Business Administration. She has completed Level I of the CFA examination, is a member of the Boston Security Analysts Society, and is currently enrolled in the CAIA Program as a Level II candidate. Outside the office, Ms. Coonan is a professional freelance photographer.

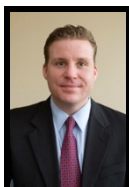


Mitch D. Dynan, CFA – Principal / Director of Public Markets Manager Research

Mr. Dynan joined Meketa Investment Group in 2008 and has more than twenty-five years of investment experience. He graduated from Tufts University, magna cum laude, with a double major in Economics and History, and holds the Chartered Financial Analyst (CFA) designation. He is a member of The Boston Society of Security Analysts and the CFA Institute.

Mr. Dynan started his career at the Chase Manhattan Bank and completed their credit training program. He subsequently joined Kidder, Peabody where he worked as a sell-side analyst before making the transition to investment management at MFS Investment Management.

Mr. Dynan spent sixteen years at MFS as an equity analyst and co-portfolio manager of Massachusetts Investors Trust, a large mutual fund. After two years at Fortis Investments, Mr. Dynan joined Mintz Levin Financial Advisors, a financial planning and wealth management firm, where he served as Chief Investment Officer. In that role, he worked with individual clients, wrote the firm's quarterly market commentary, analyzed and selected equity and fixed income managers, and evaluated a broad spectrum of alternative investments.



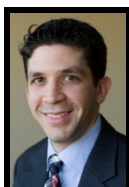
John J. Manley, CFA – Principal

Mr. Manley joined Meketa Investment Group in 2005. He received a BA in Economics and Government from Hamilton College and was recognized as a Hamilton College Scholar Athlete, playing on both the varsity football and ice hockey teams.

Mr. Manley serves as consultant on various defined benefit, defined contribution, annuity and health & welfare funds, with Taft-Hartley, non-profit and corporate plan sponsors. His consulting work includes investment policy design and asset allocation modeling, in addition to the analysis of manager and fund performance. Mr. Manley is also a member of the firm's General Consulting, Defined Contribution, and Marketing Committees.

Mr. Manley holds the Chartered Financial Analyst designation from the CFA Institute, and he is a member of the Boston Security Analysts Society and the CFA Institute. Additionally, Mr. Manley has passed Level I of the Chartered Alternative Investment Analyst (CAIA) exam.

Prior to joining Meketa Investment Group, Mr. Manley was a senior research analyst at Kobren Insight Management and a client account manager at Brown Brothers Harriman. Mr. Manley has been a guest speaker at the International Foundation of Employee Benefit Plans (IFEBC) Annual Employee Benefits Conference and Boston College's Carroll School of Management. Away from work, Mr. Manley is a member of the Noble and Greenough School Graduates Council.

**CONSULTANTS, (CONT.)****W. Fran Peters, CFA, CAIA – Principal**

Mr. Peters joined Meketa Investment Group in 2004, and has been in the industry for fourteen years. He received an MBA with a concentration in Finance from the University of Massachusetts, Boston and a BS in Business Administration from the Whittemore School of Business & Economics at the University of New Hampshire.

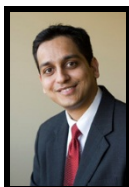
He holds the Chartered Financial Analyst designation and is a member of the CFA Institute and the Boston Security Analysts Society. Mr. Peters also holds the Chartered Alternative Investment Analyst (CAIA) designation and is a member of the CAIA Association.

Mr. Peters serves as the lead consultant on various defined benefit, health & welfare, and insurance funds, with public, Taft-Hartley, corporate, and not-for-profit plan sponsors. His consulting work includes investment policy design, asset allocation modeling, public and private market investment manager due diligence and fund performance analysis, among others. He is also a member of the firm's General Consulting and Real Estate Investment Committees.

He is a member of the National Conference on Public Employee Retirement Systems, the Massachusetts Association of Contributory Retirement Systems, and the Michigan Association of Public Employee Retirement Systems. He currently serves on the Advisory Board to the College of Management at the University of Massachusetts Boston. Additionally, Mr. Peters serves as a Trustee on the Town of Brookline OPEB Trust Board.

Mr. Peters speaks at numerous industry events, including the International Foundation of Employee Benefit Plans (IFEBC) Trustees and Administrators Institutes, the IFEBC Annual Employee Benefits Conference, the Public Funds Summit East and the New England Public Employees Retirement Systems Forum.

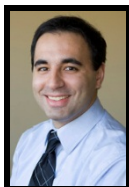
Prior to joining Meketa Investment Group, Mr. Peters was a client account manager at ING Financial Advisers, where he worked with Massachusetts public employees for four years.

**Kunal K. Shah – Principal**

Mr. Shah joined Meketa Investment Group in 2006. A Principal of the firm, Mr. Shah works in the Private Markets Group focusing on private equity, private debt, and natural resources investments. He focuses on performing due diligence for private market funds, maintaining and establishing new relationships with private market firms, and reporting on private market funds. Mr. Shah serves as coordinator of the private equity team, and is responsible for managing the private equity deal flow and due diligence processes. He also serves as coordinator for the sourcing and analyzing of private market secondary transactions.

He serves on the advisory board of select private market partnerships, representing several of the firm's clients. Mr. Shah is also a member of the private markets operations team and is responsible for various operations projects.

Prior to joining Meketa Investment Group, he was an analyst for The Vanguard Group. Prior to that, he worked in the private equity and research group of Hirtle, Callaghan & Co. Mr. Shah received a bachelor's degree in Business Administration with a concentration in Finance from Drexel University.

**Marc A. Fandetti, CFA, CFP® – Executive Vice President**

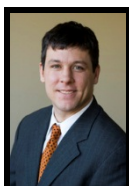
Mr. Fandetti, an Executive Vice President at the firm, joined Meketa Investment Group in 2006, and his sixteenth year of servicing retirement benefit plans. He began his finance career in 1997 at State Street (now ING Advisors), where he led a team that became among the first in the nation to provide financial advice to defined contribution plan participants.

In addition to personal financial advice and planning, Mr. Fandetti's roles eventually included investment advice product development, supervision of delivery, and reporting of results to participants and plan sponsors.

Prior to joining State Street/ING Advisors, Mr. Fandetti was a producer and weekend host at WPRO AM radio, in East Providence Rhode Island. He joined WPRO in 1992 as an intern. While with WPRO, Mr. Fandetti produced both the early morning and mid-day talk shows and delivered news and sports on weekends.

Mr. Fandetti serves as consultant on various defined benefit, defined contribution, annuity, and health & welfare funds, with Taft Hartley and corporate plan sponsors. His consulting work includes investment policy design and asset allocation modeling, in addition to the analysis of manager and fund performance.

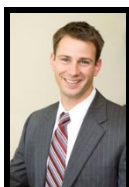
Mr. Fandetti, a graduate of Providence College (BA) and the College for Financial Planning (MS), is a CERTIFIED FINANCIAL PLANNER™, a Chartered Retirement Plans SpecialistSM and a Chartered Mutual Fund CounselorSM. He currently holds the Chartered Financial Analyst designation and previously held the NASD Series 6, 63 and 65 licenses.

**W. Brian Dana, CAIA – Senior Vice President / Hedge Fund Practice Leader**

Mr. Dana joined Meketa Investment Group in 2006. He works with clients as well as in investment manager research, leading the firm's research on hedged strategies. This responsibility includes hedged strategy portfolio construction as well as sourcing, due diligence, and analysis of hedge funds and hedge fund of funds. Mr. Dana is a member of Meketa Investment Group's Marketable Securities Investment Committee (MSIC) which oversees manager due diligence.

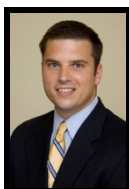
Prior to joining the firm, he worked as an analyst with The University of Florida Investment Corporation (UFICO), the investment group for the University of Florida's endowment.

While at the UFICO, Mr. Dana focused on sourcing, due diligence and analysis of alternative investments. Previously, he served as an Associate with Citigroup Global Markets' Boston office in fixed income sales and trading. Mr. Dana received a Master of Science in Finance from the University of Florida in 2006 and his undergraduate degree in Economics from Drury University in 2000. Mr. Dana holds the Chartered Alternative Investment Analyst (CAIA) designation and is a member of the CAIA Association.

**CONSULTANTS, (CONT.)****Jess W. Downer, CFA – Senior Vice President**

Mr. Downer joined Meketa Investment Group in 2008. A Senior Vice President of the firm, Mr. Downer works in the Private Markets Group specializing in private equity and real estate investments. He focuses on client service, performing due diligence of private market funds, maintaining and establishing new relationships with private market firms, and reporting on private market funds. He serves on the advisory board of select private market partnerships, representing several of the firm's clients. Mr. Downer is also a member of the private markets operations team and is responsible for various operations projects.

Prior to joining the firm, he worked for five years with Pacific Corporate Group (PCG), now TorreyCove Capital Partners, a private equity advisor serving institutions through discretionary and advisory arrangements. While at PCG, Mr. Downer focused on sourcing, due diligence and analysis of alternative investments. Mr. Downer received a bachelor's degree in Business Administration with a concentration in Finance from the University of Puget Sound. Mr. Downer holds the Chartered Financial Analyst designation, and is a member of the CFA Society of San Diego.

**Daniel R. Dynan, CFA, CAIA – Senior Vice President**

Mr. Dynan joined Meketa Investment Group in 2009 and has been in the financial services industry for nine years. A Senior Vice President of the firm, Mr. Dynan serves as a consultant on various defined benefit, annuity and health & welfare funds, with Taft-Hartley, public, and corporate plan sponsors.

His consulting work includes investment policy design and asset allocation modeling, in addition to the analysis of investment manager and total fund performance. He received his undergraduate degree in Economics from the College of the Holy Cross.

Mr. Dynan holds the Chartered Financial Analyst designation and is a member of the Boston Security Analysts Society and the CFA Institute. Mr. Dynan also holds the Chartered Alternative Investment Analyst (CAIA) designation and is a member of the CAIA Association. He is a member of the Massachusetts Association of Contributory Retirement Systems and the Florida Public Pension Fund Trustee Association.

Prior to joining the firm, Mr. Dynan held positions at Merrill Lynch & Co. and Bear, Stearns & Co., where he was responsible for the development of asset allocation and wealth preservation strategies for high net worth individuals.

**Steven Hartt, CAIA – Senior Vice President**

Mr. Hartt joined Meketa Investment Group in 2010 and has been in the financial services industry for twenty-five years. A Senior Vice President of the firm, Mr. Hartt works in the Private Markets Group where he focuses on client service and marketing, as well as performing due diligence on private markets managers. Prior to joining the firm, Mr. Hartt was a Senior Vice President at Amalgamated Bank where he was in charge of alternative investments.

While at Amalgamated Bank, Mr. Hartt managed the discretionary portfolios of private equity, debt, and infrastructure funds, in addition to the development, marketing and management of a private equity fund of funds.

Prior to this, he spent eleven years at Citigroup in financial advisory, marketing and investment positions. He was also a senior member of Citigroup Alternative Investments where he was responsible for originating, evaluating, and managing private equity fund and direct investments. Mr. Hartt was also a summer associate at Dean Witter Reynolds and an assistant trader at Morgan Guaranty Bank.

Mr. Hartt received a Masters of Business Administration from Columbia Business School, and a Bachelor of Science degree, cum laude, from the University of Colorado, Boulder. Mr. Hartt holds the Chartered Alternative Investment Analyst (CAIA) designation and is a member of the CAIA Association.

**Henry Jaung – Senior Vice President**

Mr. Jaung joined Meketa Investment Group in 2010. He brings over twenty-five years of institutional investment experience as a trader, an investment consultant and a portfolio manager. Prior to joining the firm, Mr. Jaung was employed by Fidelity Investments in Boston from 1997 to 2010.

He held several senior investment roles during his fourteen-year tenure at Fidelity. Mr. Jaung was a member of the portfolio management team in the Global Asset Allocation Group. As the senior strategist and portfolio manager, he helped manage over \$100 billion of multi asset class funds in both tactical and strategic asset allocation funds.

He was also the lead investment consultant on many of Fidelity's largest corporate retirement plans where he advised on asset allocation and the portfolio construction process. Concurrently, Mr. Jaung was the Director of Research for Fidelity Institutional Retirement Services Company where he oversaw the due diligence process of outside managers for Fidelity's corporate retirement clients.

Prior to Fidelity Investments, Mr. Jaung held senior investment roles with national investment consulting firms, including SEI Asset Consulting Group, where he was a Principal, directing the Northeast practice and advising various defined benefit plans and endowments. His work included investment policy design and asset allocation modeling, in addition to analysis of manager and fund performance.

Mr. Jaung speaks at various industry events on the topics of asset allocation, portfolio construction and the capital markets. Mr. Jaung attended Columbia University where he studied Mathematics and received a BS, Mathematics from the University at Albany, State University of New York.



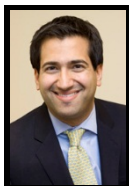
CONSULTANTS, (CONT.)

**Laura B. Wirick, CFA, CAIA – Senior Vice President**

Ms. Wirick joined Meketa Investment Group in 2008. She works with Public, Endowment, Foundation, and Taft-Hartley clients to set investment policy and provide oversight of client portfolios, in addition to performing asset-liability modeling studies. Ms. Wirick is a member of Meketa Investment Group's public markets research team, for which she performs fixed income manager research, and is also a member of the Marketable Securities Investment Committee.

Prior to joining the firm, she was a Senior Investment Analyst for the Dartmouth College Endowment. While at Dartmouth, she participated in setting asset allocation policy, and selecting and monitoring both traditional and alternative investment managers for the Endowment. Prior to that, she worked with endowments and foundations as a Senior Consulting Associate at Cambridge Associates, where her responsibilities included both qualitative and quantitative analysis of client portfolios and research on fund governance issues.

Ms. Wirick received a bachelor's degree in Business Administration with concentrations in Finance and International Marketing from American University. She holds the Chartered Financial Analyst designation, and is a member of the CFA Society of San Diego. Ms. Wirick also holds the Chartered Alternative Investment Analyst (CAIA) designation and is a member of the CAIA Association.

**Aneish S. Arora – Vice President**

Mr. Arora joined Meketa Investment Group in 2006. Mr. Arora, a Vice President of the firm, was previously employed as an investment analyst at The Marshall Financial Group in Doylestown, PA. Mr. Arora also previously worked as an assistant project director at Commerce Capital Markets in Philadelphia.

In 2004, Mr. Arora received an undergraduate degree in Finance from The Fox School of Business at Temple University. Mr. Arora is currently enrolled in the CAIA Program as a Level II candidate.

**Paul F. Cowie, III – Vice President**

Mr. Cowie joined Meketa Investment Group in 2005. A Vice President of the firm, Mr. Cowie is based out of the San Diego office and works directly with several of our West Coast clients. He graduated from Bucknell University with a bachelor's degree in Economics and a minor in Political Science.

Prior to joining the firm, Mr. Cowie was employed by Standish Mellon Asset Management and State Street Corporation as a portfolio accountant. Mr. Cowie is currently enrolled in the CFA Program as a Level III candidate and is a member of the CFA Society of San Diego.

**Richard J. O'Neill, CAIA – Vice President**

Mr. O'Neill joined Meketa Investment Group in 2008. Prior to joining the firm, he was a portfolio officer in the Private Wealth Management division of Mellon. Previously, Mr. O'Neill was employed as a portfolio analyst at The Rockwater Group and as a financial relationship specialist at Sovereign Bank. He received his undergraduate degree in Psychology and Philosophy from Boston College.

He holds the Chartered Alternative Investment Analyst (CAIA) designation, and is a member of the CAIA Association. Mr. O'Neill is currently enrolled in the CFA Program as a Level II candidate.

**Bradley M. Regier, CFA, CAIA – Vice President**

Mr. Regier joined Meketa Investment Group in 2010 and has been in the investment industry for twelve years. A Vice President of the firm, Mr. Regier's work includes developing asset allocation and investment policies, as well as providing oversight of client portfolios.

Mr. Regier worked as an equity research analyst for eight years, primarily at a long/short equity hedge fund, Viewpoint Investment Partners, and two investment banks, The Seidler Companies and Roth Capital Partners. Prior to joining Meketa Investment Group, he was research associate for Professor Kenneth R. French at the Tuck School of Business at Dartmouth.

Mr. Regier earned an MBA from the Tuck School of Business at Dartmouth in 2009 and a bachelor's degree in Business/Economics from Westmont College in 1997. He holds the Chartered Financial Analyst designation, and is a member of the CFA Society of San Diego. Mr. Regier also holds the Chartered Alternative Investment Analyst (CAIA) designation and is a member of the CAIA Association.

**Edward C. Urban, CFA – Vice President**

Mr. Urban joined Meketa Investment Group in 2009. Prior to joining the firm, he was a senior equity analyst and associate director with Bear, Stearns & Co. Previously, he worked as a summer associate for a media- and telecommunications-focused hedge fund and as a senior performance measurement analyst with Russell/Mellon Analytical Services, evaluating portfolio performance across asset classes for institutional investors with more than \$30 billion in assets under management.

Mr. Urban earned an MBA from the Yale School of Management and a BA from Eastern Nazarene College. He holds the Chartered Financial Analyst designation from the CFA Institute and is a member of the Boston Security Analysts Society.

**INVESTMENT PROFESSIONALS****David S. Altshuler, Ph.D. – Senior Vice President /
Infrastructure Practice Leader**

University of Chicago Ph.D.
Reed College, BA
Nuveen Investments, Assistant Vice President,
Infrastructure Financing (2002 – 2008)
Affiliations: Visiting Scholar, Collaboratory for Research
on Global Projects, Stanford University

Michael H. Dean – Senior Vice President

Baylor University, BBA
Ithecus Capital Group, Director of Investments (2003 – 2007)
The Amend Group, Associate (2002 – 2003)
CCBN, Account Executive (2000 – 2001)
Acorn Land Corp, Associate (1998 – 2000)
Affiliations: Real Estate Finance Association

**Ed Omata, CFA – Senior Vice President /
Assistant Director of Public Markets Manager Research**

University of Wisconsin at Madison, BBA
Chartered Financial Analyst
Goldman Sachs & Co., Vice President (2004 – 2008)
UBS, Associate (2003)
Goldman Sachs & Co., Analyst (2000 – 2002)
Affiliations: New York Society of Security Analysts

Kimberly A. Rose, CAIA – Senior Vice President

UCLA Anderson School of Management, MBA
Arizona State University, W.P. Carey School of Business, BS
Chartered Alternative Investment Analyst
Credit Suisse Technology Banking Group,
Associate (Summer 2006)
Pacific Corporate Group, Associate (2002 – 2005)
Tucker Anthony Sutro, Business Analyst (2000 – 2001)
IBM, Financial Analyst (1999 – 2000)
Affiliations: CAIA Association

Todd K. Silverman, CAIA – Senior Vice President

Colgate University, BA
Chartered Alternative Investment Analyst
Liberty Mutual Group,
Investment Research Analyst (2005 – 2008)
Liberty Mutual Group, Internal Auditor (2003 – 2005)
Liberty Mutual Group,
Associate Financial Analyst (2002 – 2003)
Affiliations: CAIA Association

Timothy J. Atkinson – Vice President

Northeastern University, BS
Commonwealth Financial Network,
Investment Research Associate (2007 – 2008)
Federal Street Advisors, Research Analyst (2006 – 2007)

Gustavo Bikkesbakker – Vice President

Boston College Carroll Graduate School of Management, MS
Arthur D. Little School of Management, MBA
Fundación BankBoston Argentina, Analista de Sistemas
EMC Corporation (2005 – 2011)
Ernst Research and Management (2003 – 2005)
EMC Corporation Argentina (1999 – 2002)

Gerald S. Chew, CAIA – Vice President

UC Davis, BS
Chartered Alternative Investment Analyst
Passed Level I of CFA exam
NASD Series 7 & 66
Wells Fargo Private Asset Management,
Investment Management Specialist (2002 – 2007)
Affiliations: CAIA Association

LouAnn Eisenhut – Vice President

Boston College, MBA
Grove City College, BS
Passed Level I of CFA exam
Wellington Management Company, LLP,
Marketing Analyst (2004 – 2006)
The Boston Company Asset Management, LLC, Senior
Performance Measurement Analyst, Officer (1999 – 2004)
State Street Bank, Senior Fund Accountant (1999 – 1999)
Federated Investors / State Street Bank,
Fund Accountant (1997 – 1999)

**Jeffrey W. Reinke – Vice President /
Private Markets Operations Officer**

Western New England College, BA
LP Capital Advisors, Associate (2006 – 2008)
State Street Bank, Officer (2004 – 2006)
Cambridge Associates, Analyst (2001 – 2004)
Affiliations: New England Venture Capital Network

Marina Simanovich – Vice President

Brandeis University, BA
Passed Levels I and II of CFA exam
Goldman Sachs & Co., Financial Analyst (2000 – 2001)
Affiliations: Boston Security Analysts Society
CFA Institute

Chris P. Tehranian – Vice President

Boston College, MS
University of Florida, BA
Gulf Power Company, Financial Analyst (2005 – 2007)
Franklin Templeton Investments,
Portfolio Analyst (2004 – 2005)
Segal Advisors, Investment Analyst (2002 – 2004)

Colleen A. Clardy – Assistant Vice President

University of San Diego, MBA
California Polytechnic State University, San Luis Obispo, BS
Brandes Investment Partners, L.P.,
Senior Institutional Portfolio Assistant (2007 – 2011)
Standard Pacific Capital, LLC,
Senior Client Service Associate (2004 – 2007)

**Robert A. Mencunas – Assistant Vice President /
Investment Analytics Team Leader**

University of Rhode Island, BA
Putnam Investments, Data Analyst (1999 – 2000)

**INVESTMENT PROFESSIONALS, (CONT.)****Christopher R. Pompilio, CFA – Assistant Vice President**

Fordham University, MBA
State University of New York at Albany, BA
Chartered Financial Analyst
Ten-Sixty Asset Management,
Hedge Fund Analyst (2007 – 2010)
Insurance Services Offices,
Publication / Product Analyst (2001 – 2007)
Affiliations: Boston Security Analysts Society
CFA Institute

Jason B. Post – Assistant Vice President

Cornell University, BS
CFA Level II Candidate
Hotel Capital Advisors, Associate (2008 – 2011)
J.P. Morgan Securities, Inc., Analyst (2007 – 2008)

Erik W. Silver – Assistant Vice President

Babson College, F.W. Olin Graduate School of Business, MBA
Principia College, BS
CFA Level II Candidate
The First Church of Christ, Scientist,
Investment Analyst (2008 – 2010)
The First Church of Christ, Scientist,
Financial Analyst (2007 – 2008)
The Principia, Assistant Director of Admissions (2006 – 2007)
The Principia, Admissions Counselor (2003 – 2006)
Affiliations: Boston Security Analysts Society
CFA Institute

Alexandra B. Wallace – Assistant Vice President

University of Massachusetts Amherst, BS
CFA Level II Candidate
Meketa Investment Group (2008 –)

Edmund A. Walsh – Assistant Vice President

Brandeis University International Business School, MAief
The Ohio State University, BA
State Street Associates, Asset Allocation
and Risk Management Research Intern (2010 – 2011)
Croesus Investments, Researcher (2009 – 2010)

Patrick White – Assistant Vice President

Indiana University, Kelley School of Business, MBA
Fordham University, BS
Mercury Partners, Mining Analyst (2007 – 2008)
Belltown Capital, Analyst (2006 – 2007)
Worldco, LLC, Proprietary Trader (2000 – 2003)

Larry Witt, CFA – Assistant Vice President

University of Notre Dame, MBA
San Diego State University, BS
Chartered Financial Analyst
American Assets Investment Management,
Associate Portfolio Manager (2011 – 2012)
Morningstar, Equity Research Analyst (2006 – 2011)
Brandes Investment Partners,
Trading Correspondent (2004 – 2006)
Morgan Stanley, Account Representative (2000 – 2002)
Affiliations: CFA Society of San Diego
CFA Institute

Jia He – Senior Associate

Tufts University, BA
CFA Level II Candidate
Meketa Investment Group (2010 –)

Christy Maher – Senior Associate

Northeastern University, BS
Passed Level I of CFA exam
John Hancock Financial Services,
Staff Accountant (2006 – 2007)

Mary Mustard – Senior Associate

Bentley University, MBA
Bentley University, BS
Danforth Associates, Research Analyst (2008 – 2010)

Brian M. Teixeira – Senior Associate

Williams College, BA
Passed Level I of CFA exam
Meketa Investment Group (2008 –)

Denise M. Beighley – Specialist

Bentley College, BS
Mellon Financial, Service Delivery Representative (2001 – 2004)

Shawn Bowen – Specialist

Assumption College, BA
Ullico, Inc., Analyst, (2010 – 2011)

Danny Chan – Specialist

Boston University, BA
Passed Level I of CFA exam
Brown Brothers Harriman, Fund Accountant, (2010 – 2012)

Valentina Geba – Specialist

Babson College, BS
D.N. Lukens, Operations Analyst, (2010 – 2011)

Kumiko Green – Specialist

Claremont Graduate University, MA
Waseda University, BA
Meketa Investment Group (2012 –)

Vlad Grigorov – Specialist

Bentley University, BS
CFA Level I Candidate
Meketa Investment Group (2011 –)

Nazeela Nasser – Specialist

Mount Holyoke College, BA
Bloomberg LP, Analytics Generalist (2011 – 2012)

Perry M. Opel – Specialist

University of Washington, BA
CFA Level I Candidate
Umpqua Bank, Credit Analyst II (2010 – 2011)
MetLife Securities, Financial Advisor (2009 – 2010)

Andrew D. Reilley – Specialist

University at Buffalo, The State University of New York, BS
State Street Bank & Trust, Fund Accountant (2008 – 2011)



CORPORATE ADMINISTRATION

Lou F. Buccini – Principal / Chief Operating Officer

University of Massachusetts, BA
State Street Bank, PrivateEdge Group, VP & Quantitative Analysis
Group Mgr. (1980 – 2003)

**Alla Y. Barskaya, CPA – Executive Vice President /
Director of Finance**

Moscow University, MBA
Moscow University, BS
Northeastern University / Boston University,
Advanced Accounting Certificate
Certified Public Accountant
Accounting Lecturer at Boston University
V Squared Investment Management / Vella Capital,
CFO and Controller (2006 – 2007)
Bank of America / Fleet Bank,
Senior Business Analyst (2000 – 2004)
Affiliations: American Institute of Certified Public Accountants
Massachusetts Society
of Certified Public Accountants

**Nancy S. LaBier, SPHR® – Senior Vice President /
Director of Human Resources**

Lesley University, MS
Senior Professional Human Resources
Affiliations: Northeast Human Resources Association
Society of Human Resources Management

**John P. Ledbetter –Senior Vice President /
Director of Technology**

Rollins College, BA
Boston University, MCSE Program
Boston University, CFP Program
Microsoft Certified Professional, MCP
Certified SonicWALL Security Administrator, CSSA
Meketa Investment Group, Network Manager (2004 – 2006)
Lojack Corporation, Network Manager (1997 – 2004)
GenRad (Teradyne), IT Contractor (1996 – 1997)

LEGAL

Timothy G. Zayac – Senior Vice President / Counsel

Georgetown University Law Center, JD
Northeastern University, BA
Proskauer Rose, LLP, Associate (2006 – 2009)
In-Q-Tel, Inc., Associate Corporate Counsel (2003 – 2006)
Bar Membership: Commonwealth of Massachusetts
Virginia
Affiliations: American Bar Association
Association of Corporate Counsel
Boston Bar Association
Virginia Bar Association

APPENDIX B

MEKETA INVESTMENT GROUP

CLIENT LIST



MEKETA INVESTMENT GROUP

REPRESENTATIVE CLIENT LIST

Meketa Investment Group has been providing investment and advisory consulting services to institutional plan sponsors for thirty-four years. Our clients include some of the nation's largest and most sophisticated institutional investors. We work closely with public and private defined benefit plan sponsors, helping clients control costs, diversify risk, manage portfolios of alternative investments, heighten fiduciary oversight, and achieve their investment goals.

PUBLIC

City of Ann Arbor Employees' Retirement System
Arizona State Retirement System
Arlington OPEB Trust
California Public Employees' Retirement System
California State Teachers' Retirement System
California's Valued Trust
District of Columbia Retirement Board
El Paso Firemen & Policemen's Pension Fund
Employees' Retirement System of the Government of the Virgin Islands
Town of Lexington Contributory Retirement System
City of Marlborough Contributory Retirement System
Massachusetts Housing Finance Agency
Employees' Retirement System
Massachusetts Housing Finance Agency OPEB Trust
Town of Norwood Retirement System
City of Quincy Retirement System
San Jose Federated City Employees' Retirement System
Santa Barbara County Employees' Retirement System
Town of Wellesley OPEB
Washington State Investment Board
Worcester Retirement System

CORPORATE AND OTHER FOR PROFIT

Boston Herald, Inc.
The Marnell Companies, LLC
Marnell Sher LLC
The O'Connell Companies, Inc.
Solymer

HEALTHCARE, ENDOWMENT, AND NON-PROFIT

Albuquerque Academy
Arizona's Permanent State Land Funds Endowment
Group Health Cooperative
Gumpert Foundation
Joint Center for Radiation Therapy
League of Voluntary Hospitals and Homes
of New York Retired Employees
Massachusetts Medical Society
Milton Hospital
Neighborhood Health Plans of Rhode Island, Inc.
Pfaffinger Foundation
Rady Children's Hospital and Health Center
South Shore Hospital
Winchester Hospital

HIGH NET WORTH/FAMILY OFFICES

Confidential Family Trust

MULTI-EMPLOYER AND TAFT-HARTLEY

I.A.T.S.E. Local 33
I.A.T.S.E. National Benefit Funds
OCU Pension and Health & Welfare Trusts
Airconditioning and Refrigeration Industry
American Federation of Musicians and Employers
American Federation of Television and Radio Artists
Asbestos Workers Local 6
Building Service 32BJ
The Goodyear Health Care Trust
IAM National Pension Fund
International Union of Operating Engineers Local No. 98
Iron Workers of Western Pennsylvania
Laborers' District Council and Contractors of Ohio
Local 6 Club Employees
Lucent Retirees Healthcare Trust
Massachusetts Laborers
Michigan Laborers
Minnesota Laborers
Minnesota Teamsters Construction Division
New England Carpenters
New York State Nurses Association
New York State Teamsters
Northwest Ohio Carpenters
Ohio Carpenters
Painters and Allied Trades District Council No. 35
Plumbers & Pipefitters, Local Union #51
Plumbers Local Union No. 1
Producer-Writers Guild of America
Rhode Island Carpenters
Service Employees 32BJ North
Sheet Metal Workers' Local No. 9
Social Service Employees Local 371
Southern California Plastering Institute
Southern California United Food &
Commercial Workers Unions
Southern Nevada Carpenters
Teamsters Local 560
Teamsters Union 25
Teamsters Union Local 170
Twin City Iron Workers
UNITE HERE Local 25 and Hotel Association
of Washington, D.C.
Western States Insulators and Allied Workers

SOVEREIGN WEALTH FUND

Confidential Client

* As of September 1, 2012

APPENDIX D

MEKETA INVESTMENT GROUP

CODE OF ETHICS AND COMPLIANCE MANUAL



M E K E T A I N V E S T M E N T G R O U P

B O S T O N

M I A M I

S A N D I E G O

MEKETA INVESTMENT GROUP, INC.

CODE OF ETHICS

AND

INVESTMENT POLICY, PROCEDURES, & COMPLIANCE

MANUAL

7 K L V & R G H R I (W K L F V D Q G , Q Y H V W P H Q W 3 R O L F \
L V W K H S U R S H U W \ R I O H N H W D , Q Y H V W P H Q W 3 R O L F \
the Company if your employment or association with the Company is terminated for
reason. The contents of this Manual are confidential, and should not be revealed
parties.

December 2011

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Exhibits:	
A. Certificate of Compliance	
B. Securities Holdings Report	
C. Quarterly Report of Securities Transactions	
D. Notification Concerning Insider Information Abuse	
E. Form ADV Part 1A; Item 11 Disciplinary History Disclosure	
F. Gift & Entertainment LMO Form	
G. Annual Financial/Conflict of Interest Statement	
Appendices	
1. Gifts & Entertainment Policy	
2. Policy With Respect to Payments to Public Officials	
3. Foreign Corrupt Practices Act Policy	
4. Proxy Voting Policies and Procedures	

INTRODUCTION

7 K L V & R G H R I (W K L F V D Q G , Q Y H V W P H Q W 3 R O L F \ 3 U R F H G X U I
prepared for Supervised Persons (as defined in Article I hereof) of Meketa Investment Group, Inc.
W K H ' & R P S D Q \ μ 7 K L V O D Q X D O G R H V Q R W D G G U H V V D O O I
of the & R P S D Q \ · V E X V L . According to the treatment of those issues that are discussed
in this Manual is not exhaustive. The Manual is intended merely to summarize certain of the legal
issues involved L Q W K H & R P S D Q \ · V and to establish duties and procedures
applicable to all employees of the Company.

The relationship between the Company and our clients is our most important asset. The entire basis
of our business is the trust of our clients; without their trust we cannot do our jobs or remain in
E X V L Q H V V : H V W U L Y H W R P D L Q W D L Q R X U F O L H Q W V · W U X V
independent and unbiased consulting advice.

The Company acts as a fiduciary and our employees have the responsibility to render our clients
professional, continuous, and unbiased consulting advice. We owe our clients a duty of honesty,
good faith, and fair H D O L Q J : H P X V W D F W D W D O O W S E P H A V O I D Q R X U F
any conflicts of interest. This Manual implements procedures to achieve these goals. Any violation
of this Manual constitutes grounds for disciplinary sanctions, up to and including dismissal.

This Manual is intended to comply with various provisions of federal securities laws, including
6 H F W L R Q V \$ D Q G R I W K H , Q Y H V W P H Q W \$ G Y L V H I
rules and regulations adopted by the H F X U L W L H V D Q G ([F K D Q J H & R P P L V V L R C

This Manual will be reviewed annually to evaluate its adequacy and the effectiveness of its
implementation in light of the issues arising during the previous year development of the
& R P S D Q \ · V E X V L . And the changes in applicable regulatory requirements.

Article 1. Scope

1.1. Supervised Persons. The Company's Supervised Persons include (i) all directors and officers of the Company, and (ii) all employees of the Company, and (iii) any other person acting on behalf of the Company and who is subject to the Company's policies and procedures.

1.2. Access Persons. Any person who is a non-public fund or plan advised by the Company, (ii) is involved in making securities recommendations or rendering advice to clients, or (iii) has access to such recommendations that are non-public in nature. For the avoidance of doubt, the Company's policies and procedures apply to all such persons.

1.3. Beneficial Ownership. For purposes of the reporting requirements contained in Article III, and the compliance requirements of Article IV, the reports and compliance requirements specified therein are applicable to accounts of which the person making the report may be considered to be the beneficial owner of the securities. The Company's policies and procedures apply to all such accounts.

Article II. General Principles

2.1. Codes and Regulations. All Supervised Persons are expected to be reasonably knowledgeable of, and comply with, applicable federal and non-U.S. laws and regulations relating to the Company's activities. They are expected to abide by the internal compliance practices set forth by the Company in this Manual.

2.2. General Standards of Business Conduct. The Company expects that all Supervised Persons will conduct themselves consistently with the following general standards regardless of whether this Manual prescribes more specific practices or procedures in relation to certain conduct.

- a. All Supervised Persons must comply with all applicable securities laws. Supervised Persons shall be permitted in connection with the purchase or sale of a security held or to be acquired by a client, directly or indirectly:
 1. To defraud such client in any manner;
 2. To mislead such client, including by making a statement that omits material facts;
 3. To engage in any act, practice or course of conduct which operates or would operate as a fraud or deceit upon such client;
 4. To engage in any manipulative practice with respect to such client; or
 5. To engage in any manipulative practice with respect to securities, including price manipulation.
- b. As a fiduciary, the Company has an affirmative duty of care, loyalty, honesty, and good faith to act in the best interests of its clients. All Supervised Persons must conduct themselves in a manner consistent with such duties by, for example:
 1. Avoiding conflicts of interest and fully disclosing all material facts concerning any conflict that does arise with respect to any client;
 2. Refraining from inappropriate favoritism of one client over another;

3. Using caution in accepting gifts or bequests from clients and taking loans from clients;
 4. Avoiding activities that are competitive with the Company;
 5. [REDACTED]
- c. Certain of W K H & R P's Certain Benefit plans subject to the Employee Retirement Income Security Act of 1974, as amended, and the Company, with respect to such clients, acts as fiduciary thereon in accordance with the fiduciary standards imposed by ERISA. All Supervised Persons must be mindful of such standards and render advice and services in a manner consistent with the following:
1. Exclusive Benefit. A fiduciary must discharge his or her duties with respect to a plan solely in the interest of the participants and beneficiaries and for the exclusive purpose of providing benefits to the participants and their beneficiaries.
 2. Prudent Expert Rule. A fiduciary in discharging his or her duties with respect to a plan is required to act as a prudent man acting in a like capacity and familiar with such matters would use in the conduct of an enterprise of a like character and with like aims.
 3. Diversification. A fiduciary who has investment responsibility must diversify the investments of a plan so as to minimize the risk of large losses, unless under the circumstances it is clearly prudent not to do so.
 4. Non-Deviation from Plan Documents. A fiduciary must act in accordance with the documents and instruments governing a plan insofar as the documents and instruments are consistent with the provisions of ERISA.

Article III. Securities Reports

3.1. Covered Securities. [REDACTED] future, in [REDACTED] Advisers Act.

- a. The term Covered Securities also includes but is not limited to:
 1. Options on securities, on indexes, and on currencies;
 2. All kinds of limited partnerships;
 3. Foreign unit trusts and foreign mutual funds; and
 4. Private investment funds, hedge funds, and investment clubs.
- b. The term Covered Securities does not include:
 1. Transactions effected pursuant to an automatic investment plan;
 2. Transactions in securities held in accounts over which the Supervised Person has no influence or control, direct or indirect;
 3. Direct obligations of the U.S. government;
 4. [REDACTED] high quality short-term debt obligations, including repurchase agreements;
 5. Shares issued by money market funds;

Article IV. Compliance Controls

4.1. Pre-Clearance of Trades Supervised Persons must obtain the approval of the Chief Compliance Officer prior to acquiring securities in:

- a. Initial public offerings; or
- b. Limited or private offerings.

4.2. Certain types of Securities Supervised Persons are prohibited from trading in:

- a. The financial securities of Q\ R I W K H & R P S D Q \ · V F O L H Q W V
- b. The securities of any company or firm, the majority of whose revenues derive from investment management, for example, T. Rowe Price (this restriction applies primarily to investment decision-making personnel); and
- c. Securities known by the Supervised Person to be in the process of being acquired or liquidated by a client.

4.3. Other Measures The Chief Compliance Officer will determine if prohibitions on personal trading in addition to those described above or other measures designed to prevent improper trading should exist for specific securities because, for example: (i) the firm is analyzing and considering information relevant to a particular security or securities; or (ii) client trades are being placed or recommendations are being made in respect of, or which might have an effect on the price of, such security.

Article V. Insider Trading and the Protection of Material Nonpublic Information

5.1. Introduction.

- a. The Company absolutely forbids insider trading. No employee may trade, personally or on behalf of others (such as private pooled investment vehicles or client accounts managed by the Company), while in possession of material nonpublic information. No employee may communicate material nonpublic information to anyone except individuals who are entitled to receive the information in connection with their performance of their responsibilities for the Company.

5.2. Material Nonpublic Information.

a. [REDACTED] consider the information important in deciding whether to hold, buy or sell the security in question. [REDACTED] Q \ R I W K H & R P S D Q \ · V F O L H Q W V , Q I R U P D W L R Q L V O L N H O \ W R E H \ P D W H U L D O μ L the issuer of the securities, including but not limited to:

1. The impending termination of an investment manager;
2. Earnings (pretax income, operating income, net income);
3. Mergers, acquisitions, declaration of stock splits or dividend increase, decrease or omission;
4. Major management changes;
5. Major accounting changes, changes in tax rate or significant changes in debt or equity;
6. Establishment of a program to purchase the V X H U · V R Z Q V K D U H V
7. Purchase or sale of a significant asset;
8. Write-downs or write-offs of assets;

9. Additions to reserves for bad debts or contingent liabilities;
 10. Proposals or agreements involving a joint venture, merger, acquisition, consolidation, divestiture, leveraged buyout or other reorganization
 11. Dispute with a major supplier or customer;
 12. Debt service or liquidity problems;
 13. The public or private sale of a significant amount of securities;
 14. Criminal indictments, civil litigation or government investigations;
 15. Acquisition or loss of a significant contract;
 16. A significant new product or discovery; or
 17. ~~Other~~
- b. ~~Other~~ - S X E O L F μ L Q I R U P D W L R Q L V L Q I R U P D W L R Q ~~Other~~ W K D W K D V investing public generally, has been provided on a confidential basis, or has been provided in breach of a fiduciary duty not to disclose the information. Once material non-public information has been disseminated broadly to the investing public through recognized channels of distribution designed to reach and to be readily absorbed by the securities marketplace (e.g., through a national wire service, The Wall Street Journal, The New York Times or through the filing of a public disclosure document such as a proxy statement or prospectus with the SEC or other appropriate regulatory agency), it loses its status as non-public information
- c. Material non-S X E O L F L Q I R U P D W L R Q L Q F O X G H V L Q I R U P D W L R U H F R P P H Q G D W L R Q V D Q G L Q I R U P D W L R Q D E R ~~Other~~ X i o n s F O L H Q W · V (including pending transactions) The Company and Supervised Persons are not ordinarily privy to information regarding impending trades made in client portfolios. However, in the event such information becomes available to the Company or any Supervised Person, such information will be considered material-public information.
- d. ~~Other~~ identified as confidential (i) is subject to a confidentiality agreement or arrangement proscribing the use and/or further dissemination of such information, or (ii) is potentially embarrassing or detrimental to the client. Such confidential information about a client should be treated as material non-public information. See also Section 5.4.
- e. No simple test exists to determine when information is material; assessments of materiality involve a highly fact-specific inquiry. If Supervised Persons are uncertain whether or not certain information is material, he or she should contact the Chief Compliance Officer

5.3. Policies and Procedures for Protection of Material Non-public Information. The use or improper disclosure of material non-public information is prohibited under applicable securities laws and this Manual

- a. The following should govern the handling of material non-public information and should be strictly followed at all times:
 1. Never trade, recommend, direct, or otherwise cause the trading in securities for a client account, your own account, or the account of the Company or

any third party when you are aware of material ~~public~~ information relating to the issuer of the securities.

2. Never disclose material ~~public~~ information relating to any person except (i) to the extent such ~~disclosure~~ is authorized by the unanimous written approval of the members of the Compliance Committee and when necessary in connection with your duties to the Company or a client; or (ii) when the person to whom the disclosure is made is under a ~~formal~~ obligation of confidence to the Company, as is the case with other Company employees, outside counsel or auditor and only when the person to whom the disclosure is made has a ~~legitimate~~ need to know such information or (iii) to the SEC, the U.S. Department of ~~DE RDOL~~ or other regulators at the direction of internal or outside counsel to the Company.
- b. The following policies and procedures have been adopted to prevent illegal disclosures generally:
 1. Good judgment and care should be exercised at all times ~~avoid~~ unauthorized or improper disclosures. Conversations in public places such as restaurants and elevators should be limited to matters that do not pertain to confidential information.
 2. ~~or~~ outside the office should be kept in envelopes or folders. Envelopes F R Q W D L Q L Q J F R Q I L G H Q W L D O L Q I R U P D W L R Q V K R X O G should only be opened by the addressee.
 3. Increasingly, sensitive confidential materials are being transmitted by facsimile and email. When sending confidential materials via facsimile, the V H Q G H U V K R X O G Y H U L I \ W K D W W K H U H F L S L H Q W \ V place or that the intended recipient is standing by the machine when the transmission is made. When sending confidential materials via email the V H Q G H U V K R X O G Y H U L I \ mail address to be used that W \ V H confidential information is not misdirected.
- 5.4. & R Q I L G H Q W L D O L W \ R I & O L H Q W Information Pertaining to Client Q I R U P D V or its account V K D O O E H F R Q V L G and is not to be distributed to any parties outside of the Company, except as necessary to provide services as described in O L H Q W \ V D G Y L V agreement.

Article VI. Reporting of Violations

Any violations of this Manual should be reported promptly to the Chief Compliance Officer or a member of the Compliance Committee. The Company will use its best efforts to keep confidential the identity of any employee who makes such a report. Complete confidentiality not be possible in every case, however, where investigation and regulatory reporting may be required. Nonetheless, the Company will not permit retribution, harassment or intimidation of any employee who in good faith makes any such report.

Article VII. Chief Compliance Officer, Compliance Committee

7.1. Compliance Committee The Company shall maintain a Compliance Committee with F H U W D L Q U H S U H V H Q W D W L Y H V I U R P W K H & R P S D Q \ \ V V H Q L R U composed of: Alan Sparrick, Alla Barskaya, Ted Benedict, Mika Buffington, Kellie Coonan, Mitch

Dynan, Lisa Kinniburgh, and Nancy LaBier. Tim Zayac serves as an observer to the Compliance Committee.

7.2. Chief Compliance Officer. Alan Spatrick is Chief Compliance Officer.

7.3. Periodic Review. Pursuant to Section 3.4, the Chief Compliance Officer, or his delegate, shall investigate any unusual transactions or trades executed by any Supervised Person and shall promptly bring them to the attention of the Compliance Committee for appropriate action.

7.4. Authority; Annual Review. The Chief Compliance Officer shall conduct and document an annual review of the firm's policies and procedures designed to prevent violation of applicable federal and state securities laws.

7.5. Document Distribution. The Chief Compliance Officer shall ensure timely distribution of the firm's policies and procedures to all Supervised Persons.

Article VIII. Record Keeping

In addition to the Books & Records requirements set forth in Article X, the Chief Compliance Officer shall maintain, or cause the maintenance of, the following records in a readily accessible place:

- a. A copy of each Code of Ethics and Investment Policy, Procedures, & Compliance Manual that has been in effect at any time during the past five years;
- b. A copy of each written report of the Chief Compliance Officer prepared pursuant to Section 7.4;
- c. A record of any violation of this Manual (or previous versions thereof) and any action taken as a result of such violation. Such records are to be maintained for five years from the end of the fiscal year in which the violation occurred;
- d. The written acknowledgements of receipt of this Manual (or previous versions thereof, and any amendments thereto) of each person who is currently, or who within the past five years was, a Supervised Person (as applicable);
- e. Holdings and transactions reports made pursuant to this Manual (or previous versions thereof) including any brokerage confirmation and account statements for the past five years;
- f. A record of persons responsible for reviewing the securities holdings and transaction reports of Supervised Persons currently and within the past five years;
- g. A list of the names of persons who are currently, or within the past five years were, Access Persons;
- h. A list of the names of persons who are currently, or to the extent applicable, within the past five years were, Covered Persons (as such term is defined in Appendix 2 hereto); and
- i. Records of any decision and supporting reasons for approving the acquisition of any securities by a Supervised Person, the acquisition of which required the approval of the Chief Compliance Officer. Such records are to be maintained for five years following the end of the fiscal year in which approval was granted.

Article IX. Client Management

9.1. Account Acceptance and Opening Procedures.

- a. A Principal of the Company must approve each new client relationship.
- b. When a new client relationship is established the client must enter into a formal advisory agreement with the Company.
- c. The Advisers Act requires the Company to deliver a current brochure (Part 2A of Form ADV) to a client before or at the time it enters into an advisory agreement with such client and (2) supplements (Part 2B of Form ADV) to each client before the time where each Supervised Person begins to provide advisory services to a specific client¹.

9.2. Procedures for Accepting Clients. The following are the basic procedures and policies that should be followed after a new client is accepted:

- a. Each client should be provided with copies of all executed agreements and related documents.
- b. Copies of all executed agreements and related documents should be retained for record keeping purposes.

Article X. Advertising and Promotional Materials

10.1 General Principals.

- a. Advertisements include promotional materials and any other written communications or emails directed to more than one person and which concern our consulting or advisory services, whether specifically or generally. Advertisements must not be fraudulent, deceptive, or manipulative. All Supervised Persons shall comply with the following guidelines to ensure that all advertisements comply with the federal securities laws and other regulatory requirements.
 1. No communications with the press or other news media should occur without the prior approval of the president or Chief Compliance Officer. This prohibition includes, but is not limited to, interviews with print or electronic media, appearances on national network, local or cable television or radio broadcasts, publication of written investment related articles, or publication of materials over the Internet.
 2. If the purpose of a communication is to promote the business of the Company, such activities may be considered advertising and must be reviewed and approved in advance by Peter S. Woolley or his designee. Each Supervised Person is responsible for ensuring that all advertisements distributed outside the Company have been properly approved.
 3. The head of the Marketing is responsible for maintaining copies of all advertising and marketing materials, including approvals thereon and supporting documentation to demonstrate for example how performance claims (if any) were made for a period of five (5) years following the last dissemination of such material.

¹ A client must be given a brochure supplement for each Supervised Person who: (i) formulates investment advice for and has direct client contact; (ii) makes discretionary investment decisions on behalf of the client; or (iii) has direct client contact.

4. It is the policy of the Company that employees may not publicly identify or comment on clients of the Company or provide any information regarding securities held in client accounts.
5. The Company will adhere by all applicable SEC rules and regulations governing the use of websites by investment management firms

10.2 Prohibited Activities

- a. Various rules govern what the Company can and cannot say in communications with existing and prospective clients. As a general matter, employees may
 1. Employ any device, scheme or artifice to defraud any client or prospective client;
 2. Engage in any transaction, practice or course of business which operates as a fraud or deceit upon any client or prospective client;
 3. Engage in any fraudulent, deceptive or manipulative practice with respect to any client or prospective client;
 4. Use any materials or make any communication which contains any untrue statement, omission of a material fact necessary to make the statements not misleading, or is otherwise false or misleading;
 5. Make any communication which employs or is part of a high pressure sales approach; or
 6. Use any materials or make any communication which contains promises of specific results, exaggerated or unwarranted claims, opinions for which there is no reasonable basis, or forecasts of future events which are unwarranted or which are not clearly labeled as forecasts

10.3 Advertisements by Investment Advisers

- a. No employee shall publish, circulate or distribute any advertisement:
 1. which refers, directly or indirectly, to any testimonial of any kind concerning the Company or concerning any advice, analysis, report or other service rendered by the Company; or
 2. which refers, directly or indirectly, to past specific recommendations of the Company which were or would have been profitable to any person; provided, however, that this shall not prohibit an advertisement which sets out or offers to furnish a list of all recommendations made by the Company within the immediately preceding period of not less than one year in accordance with SEC Rule 206(4)(2); or
 3. which represents, directly or indirectly, that any graph, chart, formula or other device being offered can in and of itself be used to determine which securities to buy or sell, or when to buy or sell them; or which represents directly or indirectly, that any graph, chart, formula or other device being offered will assist a person in making his or her own decisions as to which securities to buy or sell, or when to buy or sell them, without prominently disclosing in such advertisement the limitations thereof and the difficulties with respect to its use; or
 4. which contains any statement to the effect that any report, analysis, or other service will be furnished free or without charge, unless such report, analysis

or other service actually is or will be furnished entirely free and without any condition or obligation, directly or indirectly; or

5. which makes specific projections or forecasts without disclosing material factors which may affect such projections or forecasts;
6. which include any statement implying that performance is guaranteed; or
7. which contains any untrue statement of material fact, or which is otherwise false or misleading.

) RU WKH SXUSRVHV KHUHRI WKH WHUP DGYHUVLVHPH letter or other written communication addressed to more than one person, or any notice or other announcement in any publication or by radio or television, which offers (a) any analysis, report, or publication concerning securities, or which is to be used in making any determination as to when to buy or sell any security, or which security to buy or sell, or (b) any graph, chart, formula or other device to be used in making any determination as to when to buy or sell any security, or which security to buy or sell, or (c) any other investment advisory service with regard to securities.

10.4 Use of Social Media Supervised Persons are reminded that the use of social media for personal purposes may have implications for the Company from both a regulatory and reputational standpoint, particularly where the Supervised Person is identified as an officer, employee or representative of the Company. Without the prior approval of the Chief Compliance Officer, a Supervised Persons may not: (i) post information relating to any investment strategy or VLPLODU LQIRUPDWLRQ UHODWLQJ WR WKH client's or former client's or former clients on a social networking site; or (ii) use a social networking site to conduct Company business, provided, however, that Supervised Persons may list general facts about his or her title or status with the Company on such sites without preapproval (e.g., employment history on LinkedIn) and, subject to the prohibitions described in clause (i) above, use such sites to identify and initially contact prospective clients. In no event may a Supervised Person include a testimonial of any kind UHJDUGLQJ KLV RU KHU RU WKH &RPSDQLV DGYLFLH RU VHUYH H J WKH UHWHQWLRO RI D 5HFRRPHQG DWLRO RQ /LQNH

Article XI. Recommendations

11.1 Client Recommendations

- a. ~~1~~ Consultants may make final investment recommendations to clients.
- b. Recommendations made by consultants who have been employed at the Company for fewer than three (3) years must be reviewed by a more senior consultant.
- c. All data shown in reports, recommendations, memoranda, or other client documents should be checked for accuracy by at least one investment professional other than the writer.
- d. No client may be treated in preference to any other client.

11.2 The investment staff shall make no specific recommendation of any security to or for any person or organization other than those persons or organizations who are clients of the Company. Exceptions may be made:

- a. In those instances where the Company is soliciting the business of a prospective client and an investment recommendation is necessary for the information and decisional purposes of such prospective client. Any member of the investment staff making such recommendations should inform the potential client that the recommendation is for their information and decisional purposes only, is based upon limited available information and is to be considered operative only for a limited time; or
- b. For advice rendered to accounts of which the Supervised Person may be considered the beneficial owner (e.g. the accounts of a spouse, children or relatives).

Members of the investment staff may participate in discussions of investment related topics with nonclients only if the discussion does not pose a conflict with any client relationships and does not violate any applicable securities laws.

- c. All Supervised Persons must sign a financial/conflict of interest statement annually disclosing any relationships that may be considered a conflict of interest.

Article XII. Disaster Management and Business Continuity

As part of its fiduciary duty to its clients and as a matter of best business practice, the Company has adopted and will periodically review its policies and procedures designed to address the specific types of disasters the Company might reasonably be confronted with. The Chief Operating Officer, including, but not limited to, the following aspects of such plan:

- a. Maintenance of backup equipment and establishment of security procedures in
- b. Maintenance of data storage and recovery equipment, locations and procedures; and
- c. Maintenance of backup communication systems.

Article XIII. Books and Records

13.1 The Company maintains all books and records under the Rule 204 of the Advisers Act in its relevant office for the periods required by such rule.

13.2 The Company maintains a record of all compliance programs and policies that are currently in effect or that have been in effect at any time during the previous five years.

13.3 The Company ensures that:

- a. Books and records can be easily located, accessed and retrieved;
- b. All books and records are legible, true and complete;
- c. Records are adequately safeguarded from loss;
- d. [REDACTED]

13.4 The Chief Compliance Officer is responsible for implementing and periodically reviewing the Company's books and records. The Chief Compliance Officer is responsible for implementing and periodically reviewing the Company's books and records.

Article XIV. Regulatory Reporting

14.1 The Chief Compliance Officer is responsible for ensuring:

- a. [REDACTED] is made within ninety (90) days following the close of the Company's fiscal year.
- b. [REDACTED] activities

14.2 If the Company or any of its officers, directors, or employees believe that any information that the Company or any of its officers, directors, or employees believes to be inaccurate, or omits to include material information, should be reported promptly to a member of the Compliance Committee.

Article XV. Custody and Possession of Client Assets

15.1 Advisers registered under the Advisers Act that hold client assets and securities (as defined in Rule 206(4) under the Advisers Act) have certain obligations with regard to safeguarding those assets.

15.2 An adviser has custody of client assets (and must therefore comply with Rule 206(4) under the Advisers Act) if it holds directly or indirectly client funds or securities or has any authority to obtain possession of them.

15.3 Although the Company may be deemed under SEC rules to have custody of client assets, it will not have custody of client funds and securities. Client funds and securities will be held by a qualified custodian (as defined under Rule 206(4) under the Advisers Act) with the assets held by the Company. The Company should be instructed to make all payments to their accounts by wire transfer directly to the bank or brokerage firm acting as custodian for that client. Any check received inadvertently from a client for the benefit of another party or from a third party for the benefit of a client should be returned promptly and in any event within three (3) business days.

15.4 The Company will be deemed to have custody of the funds and securities of any private pooled investment vehicle (each a "Fund") if the Company must comply with Rule 206(4) under the Advisers Act with respect to any such Fund. The Company's policy is to cause each Fund with assets over which the Company is deemed to have custody to distribute annually audited financial statements, prepared in accordance with U.S. generally accepted accounting principles, to investors in such Funds no later than one hundred twenty (120) days after the end of each fiscal year. In addition, upon the final liquidation of any such Fund, the Company will obtain a final audit and distribute audited financial statements prepared in accordance with GAAP with respect to such Fund to all investors thereof promptly after completion of the audit. Investments by clients managed by the Company should be sent by wire transfer directly to the prime brokerage or the qualified custodian for the particular Fund. Any check received inadvertently from a client should be returned to the client promptly and in any event within three (3) business days.

15.5 If a Fund does not deliver audited financial statements to investors in a Fund in compliance with Rule 206(4) under the Advisers Act, or the Company is deemed to have custody over other advisory client funds or securities, then with respect to such Funds and/or client accounts, the Company must have a reasonable belief that the qualified custodian will send quarterly account statements to each

investor or client, as applicable, and (b) an independent public accountant registered with, and subject to regular inspection by, the Public Company Accounting Oversight Board will conduct a surprise examination of the assets and securities of such Funds and/or client accounts at least annually and file a certificate on Form ADV with the SEC within one hundred twenty (120) days of such examination (and notify the SEC within one business day if any material discrepancies are discovered).

15.6 The Company is not required to have a qualified custodian hold privately offered un-certificated securities if ownership of the securities is recorded in the books of the issuer or its W U D Q V I H U D J H Q W L Q W K H F O L H Q W · V Q D P H D Q G W U D Q V I H U R U K R O G H U V R I W K H L V V X H U · V R X W V W D Q G L Q J V H F X U L W L H V offered un-certificated securities with respect to the account of a Fund only if such Fund is audited annually, and the audited financial statements are distributed, as described in Rule 2 (b) (3) (4) and applicable SEC staff guidance.

Article XVI. Proxy Voting

The Company has adopted policies and procedures W K H · 3 U R [\ 9 R W L Q J 3 R O L F L H V designed to ensure that client securities are voted in the best interests of the client and to address conflicts of interest. Each Supervised Person in a position to participate in or make decisions with respect to proxy voting must familiarize himself or herself with the Proxy Voting Policies and Procedures and strictly adhere to its provisions. The Proxy Voting Policies and Procedures are set forth on Appendix 4 attached hereto. The Proxy Voting Policies and Procedures must be provided to clients on request.

Article XVII. Gifts and Entertainment

3 O H D V H U H Y L H Z \$ S S H Q G L [· * L I W V D Q G (Q W H U W D L Q P H O

Article XVIII. Payments to Public Officials

P O H D V H U H Y L H Z \$ S S H Q G L [· 3 R O L F \ : L W K 5 H V S H F W W R

Article XIX. Foreign Corrupt Practices Act

3 O H D V H U H Y L H Z \$ S S H Q G L [·) R U H L J Q & R U U X S W 3 U D F W L

Article XX. Further Information

The Compliance Committee and the Chief Compliance Officer have authorized the distribution of W K L V O D Q X D O W R D O O R I W K H & R P S D Q \ · V H P S O R \ H H V D W U Company upon the commencement of their employment. Employees who have questions relating to anything contained herein or who wish advice concerning the application of the guidelines contained herein to specific transactions or factual contexts are encouraged to speak with the Chief Compliance Officer or any member of the Compliance Committee.

CERTIFICATE OF COMPLIANCE

I have received, read and understand the Code of Ethics and Investment Policy, Procedures, & RPSOLDQFH ODOXDORI OHNHWD, QYHVWHBHQWappedRKS WKH thereto, and agree to comply fully with all policies, procedures and guidelines contained therein. If I have previously signed a Certificate of Compliance with respect to the mentioned documents, I also hereby certify that I have complied fully with all policies, procedures and guidelines contained therein since the date I last signed such a Certificate of Compliance. I understand that any violation of such policies, procedures or guidelines could not only result in my immediate dismissal but also may subject me, my family, and the RPSDQ\ DOGWKH & RPSDQ\ to civil and criminal penalties.

Full Name

Signature

Date

SECURITIES HOLDING REPORT

I, _____, hereby certify that the following is a true, complete and accurate list of all Covered Securities (as defined in the Code of Ethics and Investment Policy, Procedures, & Compliance Manual) beneficially owned by me and that such list is current as of a date not later than _____.

Type of Security	Name of Security, Ticker Symbol or CUSIP Number (as applicable)	Number of Shares or Principal Amount (as applicable)	Interest Rate and Maturity Date (if applicable)

Full Name

Signature

Date

QUARTERLY REPORT OF SECURITIES TRANSACTIONS

Employee Name: _____

Quarter-End: _____

☐ I have made no security transactions in this quarter.

☐ I have made the following transactions: _____
on _____ and attach copies of all related confirmations or statements.

Transaction Date	Full Name of Security and Ticker Symbol	Interest Rate, Maturity Date	# of Shares or Principal	Purchase or Sale	Price	Name of Broker, Dealer, or Bank

Signature

Date

NOTIFICATION CONCERNING
INSIDER INFORMATION ABUSE

I understand that the business known as Meketa Investment Group, which provides investment management and investment advisory services.

I understand that my relationship to the Company, whether contractual or otherwise, may give me access to confidential client information and material nonpublic information. Such information includes any details or knowledge concerning the investments, assets, or investment strategies of the Company its principals, or clients that has not been disseminated broadly to the investing public.

I understand that should I acquire or otherwise be made aware of any information through my relationship with the Company I may not use such information for personal gain, nor may I disclose such information to family, friends, or other parties.

I understand that any misuse of information that I may acquire through my relationship with the Company may constitute a criminal offense for which substantial and criminal penalties may apply.

Print Name

(P S O R \ H H · V 6 L J Q D W X

Date

DISCIPLINARY HISTORY DISCLOSURE

In this exhibit, we ask for information about your disciplinary history. The SEC will use this information to decide whether to revoke our registration or to place limitations on our activities as an investment adviser, and to identify potential problem areas to focus on during site visits on H [D P L Q D W L R Q V R I R X U E X V L Q H V V 3 O H D V H Q R W H W K D W R Q one of the questions below. ~~Italicized~~ terms are defined in the Glossary of Terms below.

	Yes	No
A. In the past ten years, have you		
(1) E H H Q F R Q Y L F W H G R I R U S O H G J X L O W \ R U Q R O R foreign, or military court to are you?	<input type="checkbox"/>	<input type="checkbox"/>
(2) been charged with any felony?	<input type="checkbox"/>	<input type="checkbox"/>
B. In the past ten years, have you		
(1) E H H Q F R Q Y L F W H G R I R U S O H G J X L O W \ R U Q R O R foreign, or military court to is misdeemeanor involving: investments or an investment related business, or any fraud, false statements, or omissions, wrongful taking of property, bribery, perjury, forgery, counterfeiting, extortion, or a conspiracy to commit any of these offenses?	<input type="checkbox"/>	<input type="checkbox"/>
(2) been charged with a misdemeanor listed in Item B(1)?	<input type="checkbox"/>	<input type="checkbox"/>
C. Has the SEC or the Commodity Futures Trading Commission (CFTC) ever:		
(1) found you to have made a false statement or omission?	<input type="checkbox"/>	<input type="checkbox"/>
(2) found you to have been involved in a violation of SEC or CFTC regulations or statute?	<input type="checkbox"/>	<input type="checkbox"/>
(3) found you to have been a cause of an investment related business having its authorization to do business denied, suspended, revoked, or restricted?	<input type="checkbox"/>	<input type="checkbox"/>
(4) entered an order against you in connection with investment related activity?	<input type="checkbox"/>	<input type="checkbox"/>
(5) imposed a civil money penalty on you, or ordered you to cease and desist from any activity?	<input type="checkbox"/>	<input type="checkbox"/>
D. Has any other federal regulatory agency, any state regulatory agency, or any financial regulatory authority:		
(1) ever found you to have made a false statement or omission, or been dishonest, unfair, or unethical?	<input type="checkbox"/>	<input type="checkbox"/>
(2) ever found you to have been involved in a violation of investment related regulations or statutes?	<input type="checkbox"/>	<input type="checkbox"/>
(3) ever found you to have been a cause of an investment related business having its authorization to do business denied, suspended, revoked, or restricted?	<input type="checkbox"/>	<input type="checkbox"/>
(4) in the past ten years, entered an order against you in connection with investment related activity?	<input type="checkbox"/>	<input type="checkbox"/>
(5) ever denied, suspended, or revoked your registration or license, or otherwise prevented you or any advisory affiliate, or ordered from associating with an investment related business or restricted your activity?	<input type="checkbox"/>	<input type="checkbox"/>
E. Has any self-regulatory organization or commodities exchange ever:		
(1) found you to have made a false statement or omission?	<input type="checkbox"/>	<input type="checkbox"/>
(2) found you to have been involved in a violation of its rules (other than a violation	<input type="checkbox"/>	<input type="checkbox"/>

	Yes	No
(3) found you to have been the cause of an investment-related business having its authorization to do business denied, suspended revoked, or restricted?	<input type="checkbox"/>	<input type="checkbox"/>
(4) disciplined you by expelling or suspending you from membership, barring or suspending you from association with other members, or otherwise restricting your activities?	<input type="checkbox"/>	<input type="checkbox"/>
F. Has an authorization to act as an attorney, accountant, or federal contractor granted you ever been revoked or suspended?	<input type="checkbox"/>	<input type="checkbox"/>
G. Are you now the subject of any regulatory proceeding to any part of Item C, D or E?	<input type="checkbox"/>	<input type="checkbox"/>
H. (1) Has any domestic or foreign court:		
(a) in the past ten years enjoined you in connection with any investment-related activity?	<input type="checkbox"/>	<input type="checkbox"/>
(b) ever found that you were involved in a violation of investment-related statutes or regulations?	<input type="checkbox"/>	<input type="checkbox"/>
(c) ever dismissed, pursuant to a settlement agreement, investment-related civil action brought against you by a state or foreign financial regulatory authority?	<input type="checkbox"/>	<input type="checkbox"/>
(2) Are you now the subject of any civil proceeding to any part of Item H(I)?	<input type="checkbox"/>	<input type="checkbox"/>

Name of Submitting Person (please print): _____

Signature of Submitting Person: _____

Date of Submission: _____

GLOSSARY OF TERMS

Charged: Being accused of a crime in a formal complaint, information, or indictment (or equivalent formal charge).

Enjoined: This term includes being subject to a mandatory injunction, prohibitory injunction, preliminary injunction, or a temporary restraining order.

Felony: For jurisdictions that do not differentiate between a felony and a misdemeanor, a felony is an offense punishable by a sentence of at least one year imprisonment and/or a fine of at least \$1,000. The term also includes a general court martial.

Foreign Financial Regulatory Authority: This term includes (1) a foreign securities authority; (2) another governmental body or foreign equivalent of a regulatory organization empowered by a foreign government to administer or enforce its laws relating to the regulation of investment-related activities; and (3) a foreign membership organization, a fund, or a company which is to regulate the participation of its members in the activities listed above.

Found: This term includes adverse final actions, including consent decrees in which the respondent

has neither admitted nor denied the findings, but does not deny any agreements, deficiency letters, examination reports, memoranda of understanding, letters of caution, admonishments, and similar informal resolutions of matters.

Investment-Related: Activities that pertain to securities, commodities, banking, insurance, real estate (including, but not limited to, acting as or being associated with an investment adviser, broker-dealer, municipal securities dealer, government securities broker or dealer, issuer, investment company, futures sponsor, bank, or savings association).

Involved: Engaging in any act or omission, aiding, abetting, counseling, commanding, inducing, conspiring with or failing reasonably to supervise another in doing an act.

Minor Rule Violation: A violation of a self-regulatory organization rule that has been designated under a plan if the sanction imposed consists of a fine of \$2,500 or less, and if the sanctioned does not contest the fine (check with the appropriate self-regulatory organization to determine if a

Misdemeanor: For jurisdictions that do not differentiate between a felony and a misdemeanor, a misdemeanor is an offense punishable by a sentence of less than one year imprisonment and/or a fine of less than \$1,000. The term also includes a special court martial.

Order: A written directive issued pursuant to statutory authority and procedures, including order of denial, exemption, suspension, or revocation. Unless included in an order, this term does not include special stipulations, undertakings, or agreements relating to payments, limitations on activity or other restrictions.

Person: A natural person (an individual) or a company. A company includes any partnership, proprietorship, or other organization.

Proceeding: This term includes a formal administrative or civil action initiated by a governmental agency, self-regulatory organization or foreign financial regulatory authority; a felony criminal indictment or information (or equivalent formal charge) or a misdemeanor criminal information (or equivalent formal charge). This term does not include other civil litigation, investigations, or arrests or similar charges effected in the absence of a formal criminal indictment or information (or equivalent formal charge).

Self-Regulatory Organization or SRO: Any national securities or commodities exchange, registered securities association, or registered clearing agency. For example, the Chicago Board of Trade

At Meketa Investment Group W K H & R, we strive to avoid circumstances where a conflict of interest or bias might impair or appear to impair the integrity or impartiality.

In W K H & R decision-making processes, a conflict of interest shall be declared by an employee who deems him/herself to be in a conflict of interest or who could reasonably be perceived to have a conflict of interest. Such employee shall refrain from discussion before or during the debate or discussion on the issue in question and shall absent him/herself from the portion of the meeting where the matter is discussed. It shall be recorded in the minutes.

- | | | |
|--|------------------------------|-----------------------------|
| 1. Within the past twelve (12) months, have you or members of your immediate family: | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| a. That directly affect or reasonably appear to affect your work or company business; | | |
| b. In entities whose financial interests directly or reasonably appear to affect your work or company business. | | |
| *Significant financial interests: Financial interests valued in excess of \$5,000 which equal or exceed 5% ownership (i.e., as the actual or beneficial owner of more than five percent (5%) of the voting stock or controlling interest enterprise or entity when aggregated for you and your immediate family. | | |
| 2. Within the past twelve (12) months, have you or members of your immediate family had an employment, consulting or financial relationship with: | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| a. A company that does business with the Company? | | |
| b. An outside organization contributing gift funds to the Company that are under your control or of direct benefit to work activities? | | |
| 3. Within the past twelve (12) months, have you or members of your immediate family served on a Board of a for-profit company? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

Below. Please describe any relationships, commitments, or activities that you or any member of your immediate family have that might present or reasonably appear to present a financial conflict of interest in your employment with the Company. Employees who are in doubt about a potential conflict of interest should declare their circumstances and consult with a Managing Principal.

Certification: I agree to update and submit this form to Human Resources within sixty (60) days of any change in status of financial interests in an entity increase to the \$5,000 threshold).

In signing and submitting this form, I certify that the above information is true to the best of my knowledge, and compliance, to the best of my knowledge, with federal law, state law and company policies related to conflicts of interest.

Employee Name

Signature

Date

GIFTS AND ENTERTAINMENT POLICY

INTRODUCTION

The giving and receiving of business gifts and entertainment is a customary and accepted means of creating good will, building and reinforcing business relationships and, with certain restrictions, represents a lawful practice. However, the giving or receiving of gifts could be seen as an attempt to bias a business decision or to enhance personal lifestyles by a misuse of company funds.

Policy W V D Q S O (R) M H V W D U L H Q B H
to offer, give and receive gifts and participate in entertainment events in connection with their work with or on behalf of clients, prospective clients, vendors, and other service providers (collectively, Business Partners).

APPLICABILITY

This Policy applies to all Company employees (and their family members).

This Policy applies to the offering, giving, ~~resting~~ or receiving of (directly or indirectly) any gift or entertainment, including, without limitation, any promotional item, holiday gift, golf outing, spectator sport, special event, conference and seminar, travel, meal, and lodging.

Where uncertainty exists regarding a specific gift or entertainment event, employees must contact the Chief Compliance Officer prior to accepting or extending ~~any~~ gift or event.

GENERAL PROHIBITIONS

No employee may ask for any gift or entertainment from Business Partners.

No gift or entertainment may be offered, given to or accepted from any Business Partner, where, for example:

- It is in the form of cash or a cash equivalent (e.g., a gift certificate);

- It may appear inconsistent with W K H & R P S D O N A R Y B U S I N E S S practices;

- There is no demonstrable benefit to W K H & R P S D O N A R Y B U S I N E S S;

- It may appear disproportionately generous or occur so frequently as to raise a question of propriety;

- It may be construed as a bribe, payoff or kickback;

- It could reasonably be construed as an inducement to affect a business decision or creating an obligation on the recipient;

- If the proposed entertainment will be attended by an employee and/or a family member without the presence of the offering party;

- The employee would be embarrassed if colleagues knew about the gift or entertainment² or if it became public knowledge (e.g., reported in the press);

- It would violate W K H & R P S D O N A R Y B U S I N E S S : L W K 5 H V S H F W W R 3 D \ P H Q W

It would violate any law or regulation (including, for avoidance of doubt, ERISA); or

It would violate the terms of any agreement with such Business Partner.

6 H H D O V R W K H V H F W L R Q H Q W L W O H G 6 S H F L D O 6 L W X D W L R Q

GIFT POLICY

Offering or Giving Gifts: Gifts should be offered or given only on rare occasions, and then primarily by those employee that serve as Consultants to existing clients.

As a general rule, the value of any gift offered or given is not to equal or exceed \$500 in those instances where the proposed gift would equal or exceed \$500 in value, or is to be offered or given

E \ D Q H P S O R \ H H R W K H Reportable Gift & R D V * L O W D D O V G (D W H U W D L O the form attached as Exhibit F to this Manual must be submitted to the Chief Compliance Officer for review and approval prior the offering or giving of such gift

6 H H D O V R W K H V H F W L R Q V H 6 L W X D W L R Q V μ D Q G \ O R Q L W R U L Q J 5 H F R U G N H H S L Q J 5 H S R U

Accepting Gifts: Employees are discouraged from receiving Reportable Gifts and must report the receipt thereof to the Chief Compliance Officer.

Treatment of Reportable Gifts: In general, Reportable Gifts will be returned or disposed of in some appropriate manner, such as by donation to a charitable organization. The Chief Compliance Officer will determine the appropriate manner in which to treat Reportable Gifts.

Exclusions: Subject to the General Prohibitions, employees are not prohibited from accepting (and need not report) promotional gifts valued at less than \$100 or holiday gifts (such as candies, fruit, flowers, calendars, or the like) valued at less than \$100 where the exchange is based solely upon a personal relationship

ENTERTAINMENT POLICY

The Company generally encourages participation in appropriate entertainment events where there is a clear business purpose and relevant business information is expected to be gained through attendance

Accepting Entertainment: Employees must, when possible, seek prior approval to attend an entertainment event by submitting a Gift and Entertainment Report to the Chief Compliance Officer. A Gift and Entertainment Report should also be submitted whenever the value of an accepted entertainment is estimated to equal or exceed \$50 per person.

Offering or Providing Entertainment: Employees providing entertainment (e.g., client meals, golf outings, sporting events, etc.) with a value equal or in excess of \$50 per person must, when possible, seek prior approval from the Chief Compliance Officer by submitting a Gift and Entertainment Report.

SPECIAL SITUATIONS

Government Officials/Public Plans: Employees are to be aware that (i) certain laws, regulations, and rules prohibit or place restrictions on gifts and entertainment extended to public officials,

(ii) Company contracts with public and Business Partners may conflict with this Policy. Therefore, it is incumbent on those employees working with public plans to be aware of applicable laws, regulations, rules, policies and contract provisions. This is a non-exhaustive list of the restrictions imposed by such entities.

Federal Government U.S. federal government employees are generally prohibited from accepting gifts and entertainment.

Massachusetts Public Plans Generally, gifts and entertainment (including, but not limited to, meals, travel, sports tickets, and golf fees) expenses related to work of & R Massachusetts municipal clients (including their employees and such employee family members) are limited to an aggregate of less than \$500 per person, per year.

District of Columbia Retirement Board Pursuant to W K H & R P contract with the Board, the Company is prohibited from requesting or accepting (directly or indirectly) any compensation, fee, commission, gift, or kind payment from any potential or current investment manager of the Board or any investment manager or services provider (i.e., a custodian) presented or recommended to the Board, except to the extent that any such investment manager or service provider is a Company client and the investment manager, service provider, candidate or entity is compensating the Company solely for bona fide purposes that are unrelated to the services that the Company provides to the Board.

See also W K H & R P'S DOL F\ : L W K D S F M S H F W W R R 3 D O L F) R U I L F L O O R U U
3 U D F W L F H V \$ F W 3 R O L F \ μ

MONITORING , RECORDKEEPING & REPORTING

Employees are responsible for monitoring applicable client contracts, and the laws, regulations, rules and policies governing public clients with respect to gift and entertainment restrictions.

Employees are also responsible for maintaining records sufficiently detailed to verify the accuracy and completeness of any Gift and Entertainment Report, Form LM-10, Form 5500, Schedule C report. Employees must retain any record necessary to verify, explain, or clarify reports, including, but not limited, to vouchers, receipts, worksheets, etc.

Taft-Hartley Clients and Form LM-10 Reporting Requirements: DOL requires reporting of any payment or loan (direct or indirect) of money or other thing of value (including reimbursed expenses, and including, for example, the extension of gifts and gratuities), or any promise or agreement therefor to any labor organization or officer, agent, shop steward or other representative of a labor organization. Sporadic or occasional gifts, gratuities or favors of \$250 or less to a labor organization need not be reported on Form LM-10, Q V X E V W D Q W L D O Y D O X H μ J L Y H Q X Q G H U F L U F X P V W D Q F H V D O labor organization need not be reported on Form LM-10, Q V X E V W D Q W L D O Y D O X H μ if the aggregate value of the gifts or gratuities with an aggregate value of \$250 or less; provided that if the aggregate value of multiple gifts or gratuities to a single union or union official exceeds \$250 in a fiscal year is no longer treated as insubstantial and the aggregate value of the transactions will be reportable.

ERISA Clients and Form 5500, Schedule C (Indirect Compensation) Reporting Requirements: As a service provider to ERISA plans (including Taft-Hartley plans), the Company may be required to U H S R U W W R D Q \ V X F K (5 , 6 \$ S O D Q D P R X Q W V R I ' L Q G L U H F W

than the plan or the plan sponsor.

Indirect compensation is compensation received with respect to the services rendered to the plan or a per V R Q · V S R V L W L R Q Z L W K W K H S O D Q L H U H F H the W L V E D Company U H Q G H U V W R D S O D Q D Q G F R P H V W Z R P D L Q I R U P V ' R W K H U μ L Q G L U H F W F R P S H Q V D W L R Q (Other things here are R U E S H Q V D sharing, 12b1 fees, sub transfer agency fees, administrative service fees, and soft dollars. Other indirect compensation includes all indirect compensation that is not eligible compensation (e.g., gifts, meals, entertainment, etc.).

The Company is permitted to exclude from such reports monetary compensation of insubstantial value, which is tax deductible for federal income purposes by the person providing the gift or entertainment and that would not be taxable income to the person. The nonmonetary gift or entertainment must be valued at less than \$500 and the aggregate value of gifts or entertainment from one source in a calendar year must be valued at less than \$1000. The \$1000 aggregate value limit is exceeded when the value of all of the gifts and entertainment will be reportable compensation; provided that nonmonetary gifts and entertainment of less than \$100 need not be included in calculating the aggregate value of all gifts required to be reported even if the \$1000 limit is otherwise exceeded.

Notwithstanding the foregoing, it is permissible to presume that ordinary promotional gifts, such as a coffee mug, greeting cards, plaques, certificates, trophies and similar items of insubstantial value that display a company logo of the person or entity providing the gift have a value of less than \$1000. On the other hand, a gift that clearly has a value in excess of \$1000 as a \$400 golf club or an expensive luxury pen (even if embossed with a company logo), would be reportable. Also, exchanges of holiday gifts that are based solely upon a personal relationship existing between persons that happen to do business with ERISA plans are not reportable indirect compensation.

Where indirect compensation is not received with respect to a particular ERISA client but by the Company generally, the Company must assume that the gift was received with respect to all ERISA-plan clients and the amount of such indirect compensation reportable to any ERISA plan client would be prorated across ERISA clients (based on, for example, the number of such clients or their assets under management). Where a formula is used, the Company must disclose such formula to the applicable ERISA plan.

OTHER

Violations of this Policy will be grounds for disciplinary action, up to and including termination.

Any questions about this Policy should be directed to the Chief Compliance Officer or, in his or her absence, W K H & R P S D A I G M counsel

POLICY WITH RESPECT TO PAYMENTS TO PUBLIC OFFICIALS

INTRODUCTION

As a registered investment adviser under the U.S. Investment Advisers Act of 1940, as amended, the Company is subject to laws, regulations, rules and policies that restrict or prohibit the making of certain campaign contributions or other Payments to Public Officials.

Capitalized terms used and not defined herein have meanings assigned to them in Schedule A hereto.

APPLICATION

This Policy applies to the Company, its employees, consultants and independent contractors that engage (or supervises any Person who engages or performs such activities) in the solicitation of any Government Entity or Covered Person.

POLICY

Prohibited Payments Payments to, or coordination or solicitation of Payments on behalf of, any Public Official who controls, could (directly or indirectly) influence, or participates in decisions by a Government Entity to select or retain investment advisers, or can appoint any person who can (directly or indirectly) influence the selection or retention of investment advisers by a Government Entity.

Permitted Payments Payments (other than Prohibited Payments) by a Covered Person to any individual who is a candidate or successful candidate for federal elective office (U.S. President, Vice President or Member of Congress (Senate and House of Representatives)), including a Person known to be providing assistance with respect to the candidacy of any such individual (including but not limited to any PAC and any inauguration or transition committee) and a foundation or other charitable institution known to be closely associated with any such individual, unless such individual, at the time any Payment is made (or coordination or solicitation of Payments by others occurs) holds an elected or appointed office of a Government Entity.

REPORTING

Covered Person Beginning on March 31, 2011 and promptly following each calendar quarter or the absence thereof, and submit such form to the Chief Compliance Officer. With respect to the initial disclosures made on March 31, 2011, Covered Persons must report any payments made

⁸Rule 206(4) of the Investment Advisers Act of 1940. The Company is not a "publicly traded company" for the purpose of obtaining or retaining a client for, or referring business to, the Company.

⁹E.g., Organizing fundraisers and other raising of funds from others (including PACs) for, or on behalf of, a Public Official, even if nothing is contributed.

during the period from March 14, 2011 through March 31, 2011.

New Hires and Promotions Every prospective hire of Covered Person or promotion of an individual to a Covered Person position requires, prior to such hire or promotion, the completion by the Covered Person of the Payment to Public Officials Disclosure Form (DQ\ VXF K LQGLYLGXDO RI W K H & R P R W I R R S O D D V W K H) RUP μ UHSRUWLQJ DQ\ 3D\PHQWV WR 3XEOLF 2IILFLDOV GX and submit such form to the Chief Compliance Officer. If any reported Payment to Public Officials constitutes a Prohibited Payment in violation of applicable law, regulation, rule or policy, such Payment shall be delayed or rescinded.

OTHER

Covered Persons are expressly prohibited from taking any action indirectly that if done directly, would result in a violation of this Policy.

If a Covered Person discovers that he or she has made a Payment in violation of this Policy, such person shall immediately notify the Chief Compliance Officer and, if directed by the Chief Compliance Officer, use best efforts to obtain the return of such Payment.

Violations of this Policy will be grounds for disciplinary action, up to and including termination.

Any questions about this Policy should be directed to the Chief Compliance Officer or, in his or her absence, W K H & R P R S O D D V W K H legal counsel.

¹⁰E.g., The spouse of a Covered Person makes a Payment where the Covered Person could not, or a Covered Person gives money to a PAC that is funneling donations to a particular Public Official.

SCHEDULE A

ADDITIONAL DEFINITIONS

Affiliate means, as to any Covered Person, any Person who is directly or indirectly controlled by, or primarily for the benefit of, such Covered Person, including, without limitation, to any political action committee (38 USC 9602) under direct or indirect control of such Covered Person.

Government Entity means any state and political subdivision of a state, including agency, authority, or instrumentality of the state or political subdivision thereof; a plan, program, or pool of assets sponsored or established by the state or political subdivision or any agency, authority or instrumentality thereof (e.g., all public pension plans and collective government funds, including participant directed plans such as 403(b), 457 and 529 plans); and officers, agents or employees of the state or political subdivision or any agency, authority or instrumentality thereof, acting in their official capacity.

Payment means any gift, subscription, loan, advance, deposit of money, or anything of value for the purpose of influencing any election for federal, state or local office; payment for debts incurred in connection with such election and transition or inaugural expenses of the successful candidate for public office.

Person means any natural person, general partnership, limited partnership, limited liability partnership, limited liability company, corporation, joint venture, trust, business trust, cooperative or association.

Political Official means: (1) any individual who was, at the time any Payment is made (or coordination or solicitation of Payments by others occurs), an incumbent, candidate or successful candidate for elective office of a Government Entity; (2) any individual who is a candidate or successful candidate for federal elective office (U.S. President, Vice President or Member of Congress (Senate and House of Representatives)) if such individual, at the time any Payment is made (or coordination or solicitation of Payments by others occurs) holds an elected or appointed office of a Government Entity; (3) any Person known to be providing assistance with respect to the candidacy of any of the foregoing, including but not limited to any PAC, any inauguration or transition committee, and a local or state political party; and (4) a foundation or other charitable institution known to be closely associated with any of the foregoing.

* * * * *

INITIAL AND PERIODIC PAYMENT TO PUBLIC OFFICIALS DISCLOSURE FORM

Name of Submitting Person: _____
Date of Submission: / /

☐ Nothing to Report[illegible]

Additional Information 2: _____

NEW/PROSPECTIVE EMPLOYEE : ADDITIONAL DISCLOSURES (CHECK ALL THAT ARE APPLICABLE):

☐ I solicited Government Entities (or supervised those that did) on behalf of my prior employer. If checked, please identify employer: _____

☐ I was an employee of a Government Entity within the past five (5) years. If so, please identify the Government Entity and by _____

☐ I have made a Payment within the past two (2) years. If so, please disclose all such Payments in the table above.

☐ My prior employer is (was) registered or required to be registered with the SEC or that is (was) unregistered in reliance on the exemption available under Section 203(b)(3) of the Advisers Act. If checked, please identify prior employer:

Signature of Submitting Person

¹Capit D O L J H G W H U P V D U H G H I L Q H G L Q P o l i c y W i t h W R D s p e c i f i c P a y m e n t s t o W P u b l i c O f f i c i a l s . , Q F . V

²E.g., provide a brief description of the reason for each Payment, coordination or solicitation and any other relevant facts or circumstances. Attach additional pages if space provided is inadequate.

FOREIGN CORRUPT PRACTICES ACT POLICY

INTRODUCTION

Meketa Investment Group, Inc., (the "Company") is subject to the U.S. Foreign Corrupt Practices Act of 1977 ("FCPA"). The FCPA prohibits persons from corruptly paying or offering to pay, directly or indirectly, money or anything of value to a foreign official to obtain or retain business.

ANTI-BRIBERY PROVISIONS

The FCPA prohibits any person from paying or offering to pay, directly or indirectly, money or anything of value to a foreign official, a foreign political party or official, or a candidate for office for purposes of influencing any act or decision (including a decision not to act) of such official in his or her official capacity, inducing the official to do any act in violation of his or her lawful duty, or to secure any improper advantage in order to assist the payor in obtaining or retaining business for or with any person, or in directing business to any person.

The term "anything of value" has been broadly construed and can include not only cash or cash equivalents, but also other things, discounts; gifts; use of materials; facilities or equipment; entertainment; drinks; meals; transportation; lodging; insurance benefits; and promise of future employment. Please note that there is no minimum value requirement.

Foreign Official. The FCPA defines the term foreign official to include the following:

any officer, director, agent, employee, or representative of a foreign government, or any officer, director, agent, employee, or representative of a foreign political party, or any officer, director, agent, employee, or representative of a foreign public international organization, or any officer, director, agent, employee, or representative of a foreign private international organization.

Please note that the enforcement agencies broadly interpret this term to include not only traditional government officials, but also employees of state-owned enterprises, government-owned enterprises, and government-owned or controlled entities. A foreign entity is not wholly owned or controlled by a foreign government if it exercises substantial control over the entity.

The FCPA also has broad application and will be satisfied even if the improper payment to a foreign official does not lead to a government contract, including, but not limited to, improper payments to secure special tax or custom treatment, secure government licenses or permits need to do business in a foreign jurisdiction, or otherwise secure an improper advantage over competitors.

THIRD PARTY PAYMENT PROVISIONS

The antibribery provisions contain broad third party payment provisions under which the actions of foreign affiliates and other third parties (such as agents, consultants, joint venture partners, etc.) can result in FCPA liability to a company or an affiliate thereof engaging the third party. Thus, companies are not immune from FCPA liability by doing business abroad through others because WKH DQWLEULEHU\ SURYLVLQV FRYHU LPSURSHU SD\PHQWV portion of such money or thing of value will be offered, given, or paid directly or indirectly, to a foreign official. Under the FCPA, knowledge is defined broadly and is present when one knows that an event is certain or likely to occur. Further, failing to take note of an event or being willfully blind can also constitute knowledge.

FINES AND PENALTIES

Violations of the FCPA can result in significant fines and penalties. For instance, a company can be criminally fined up to \$2 million per violation and culpable individuals can be subject to a criminal fine of up to \$250,000 per violation as well as imprisonment for up to five (5) years. Such fine and penalties are in addition to harsh collateral sanction that can result from an FCPA violation, including termination of government licenses and contracts.

POLICY

Each Employee of the Company has the responsibility for compliance with the FCPA within his or her area of authority, and must report any suspected violations to the Chief Compliance Officer immediately.

As noted above, WKH & RPSDQ\·V EXVLQHVV SDUWQHUV (or within the U.S. with a focus abroad) WKH & RPSDQ\·V EHKDOI RUHLJQ %XVLQHVV with the FCPA and violations of the FCPA by such Foreign Business Partners may be imputed to the Company. KHUHIRUH LW LV HDFK HPSOR\HH·V DQG RUHLJQ understand what may constitute a violation, and to proactively seek assistance should he, she or it see a possible violation of the FCPA.

3OHDVH QRWH WKDW LW LV RIWHQ GLILFXOW WR GHWHUPLQ specific circumstance might constitute a violation of the FCPA. Therefore, it is imperative that all employees read and understand this Policy, ask questions if any aspect to this Policy is unclear, and WKDW DOO WKH & RPSDQ\·V RUHLJQ %XVLQHVV SDUWQHUV understand and agree with this Policy in general and the FCPA specifically, and sign the certification attached hereto.

This certification should be included in any agreement the Company makes to hire outside companies or other third parties who will be acting on behalf of the Company in U.S. jurisdiction and must be signed by an authorized representative of such third party.

CERTIFICATION

This Agreement is contingent upon compliance with any applicable U.S. laws, particularly the)RUHLJQ & RUUXSW 3UDFWLFHV \$FW WKH) & 3 \$ (Insert DV ZHO country(ies) in which services are to be performed by third party on behalf of Meketa].

On behalf of _____ > , QVHUW QDPH RI RXWVLGH Short Name @ WKH XQGHUVLJQH KUH E Short Name's Variants With the requirements of the FCPA and will conduct all actions on behalf of Meketa Investment Group, Inc. OHNHWD LQ DFFRUGDQFH ZLWK WKH) & 3 \$ 7KH XQGHU no money paid to Short Name has compensation or otherwise has been or will be to pay any bribe or kickback in violation of U.S. or foreign law.

[Short Name] agrees to provide prompt certification of its continuing compliance with applicable laws whenever requested by Meketa.

All agents or employees of [Short Name] who will be involved in representing Meketa must be identified in writing to Meketa and approved by Meketa before they perform any actions on OHNHWD V EHKDOI \$ ZULWWHQ DFFRXQW (Short Name) with agents or employees on behalf of Meketa, or out of funds provided by Meketa. A copy of this accounting must be provided to Meketa upon request. In no event shall any payment be made by [Short Name] or its agents or employees to any undisclosed third party.

It is understood and agreed that [Short Name] is an independent contractor without authority to bind Meketa in any way.

This Agreement can be terminated immediately either upon violation of its terms or in the event that this Agreement is found to be impermissible under U.S. law.

The undersigned hereby certifies that he/she has authority to enter into [Short Name] to the terms and condition of this Agreement, including this Certification.

[INSERT NAME OF OUTSIDE COMPANY/THIRD PARTY]

By: _____
Name: _____
Title: _____
Date: _____

PROXY VOTING POLICIES AND PROCEDURES

INTRODUCTION

The Company has adopted the following policies and procedures (these Proxy Voting Policies and Procedures) which have been designed to ensure that the Company complies with the requirements of Rule 206(a) and Rule 202(c)(2) under the Investment Advisers Act of 1940. The Company exercises its voting authority in a manner consistent with the best interest of its clients. Supervised Persons who have the authority to vote client securities must familiarize themselves with and adhere to the Proxy Voting Policies and Procedures.

PROXY VOTING POLICIES AND PROCEDURES

The Company monitors the performance, activities and events related to each investment with respect to which it has the authority to vote client securities. When exercising its voting authority over client securities, the Company considers such information, evaluates issues that could have an impact on the value of the security and votes with a view toward maximizing overall value. The Company votes all proxies in a prudent manner, considering the prevailing circumstances at such time and in a manner consistent with these Proxy Voting Policies and Procedures.

The Company reviews each proposal submitted for a vote on a case-by-case basis to determine whether it is in the best interest of the client. The result, depending on the circumstances, may be to vote for the proposal, to abstain from voting, or to vote against the proposal. The Company may vote differently on various proposals, even though the securities or proposals are similar (or identical). The Company may abstain from voting or not to vote at all, and will do so accordingly.

VOTING PROCEDURES

The following procedures are performed when voting materials are received:

The investment professionals who are assigned to the investment review the current performance, activities and events related to the investment and ensure that the Company receives all necessary voting materials.

Such investment professionals, after consultation with Managing Principals, the Chief Compliance Officer, internal counsel and/or outside counsel, as appropriate, determine how the securities should be voted.

Such investment professionals ensure that the voting and/or consent is made in the best interests for the Company not to vote on such matter).

CONFLICTS

In connection with exercising its voting authority, relevant Meketa investment consultants analysts (in consultation with internal and outside counsel, as appropriate) consider the relevant facts and whether or not a material conflict of interest may arise due to business, personal or family relationships of Meketa, its owners, its employees or its related persons, with such persons having a material interest in the outcome of the vote. If a material conflict exists, Meketa takes steps to ensure that its voting decision is based on the best interests of the client and is not the product of conflict. Meketa may, at its discretion: (a) seek the advice of the applicable advisory board (if any); (b) seek the advice of the applicable advisory committee of a fund in voting such security (if any); (c) defer to the vote recommendation of an independent third party provider of proxy voting services; and/or (d) take such other action in good faith (in consultation with counsel) to resolve the conflict of interest. Depending on the particular circumstances involved, the appropriate resolution of one conflict of interest may differ from the resolution of another conflict of interest, even though the general facts underlying both conflicts may be similar (or identical). The Company may, at its discretion, (a) seek the advice of the applicable advisory board (if any); (b) disclose the conflict of interest to the client or the applicable advisory committee of the particular fund and defer to the vote recommendation of an independent third party provider of proxy voting services; and/or (c) take such other action in good faith (in consultation with counsel) to resolve the conflict of interest. Depending on the particular circumstances involved, the appropriate resolution of one conflict of interest may differ from the resolution of another conflict of interest, even though the general facts underlying both conflicts may be similar (or identical).

DISCLOSURE INFORMATION

The Company will deliver to each client and investor (as the case may be) upon written request a complete copy of these Proxy Voting Policies and Procedures and/or information on how it voted proxies for the applicable client and account.

APPENDIX E

MEKETA INVESTMENT GROUP

SAMPLE QUARTERLY AND EXECUTIVE PERFORMANCE REPORTS

The material contained in this report is confidential and may not be reproduced, disclosed, or distributed, in whole or in part, to any person or entity other than the intended recipient. The data are provided for informational purposes only, may not be complete, and cannot be relied upon for any purpose other than for discussion.

Meketa Investment Group has prepared this report on the basis of sources believed to be reliable. The data are based on matters as they are known as of the date of preparation of the report, and not as of any future date, and will not be updated or otherwise revised to reflect information that subsequently becomes available.

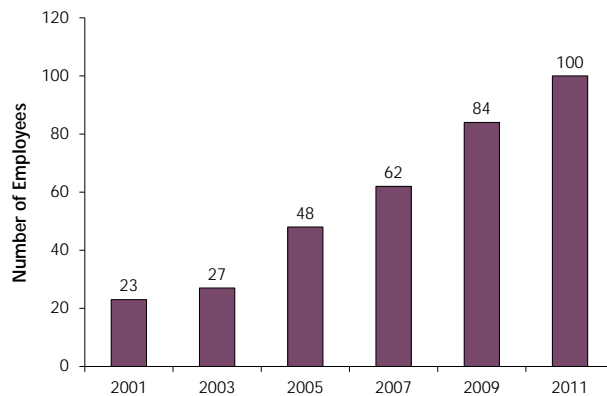
- 1. Corporate Update**
- 2. Executive Summary**
 - Broad Market Overview
 - Aggregate Fund Overview
 - Manager Highlights
- 3. Fund Governance**
- 4. Fund Summary**
- 5. Fund Detail**
- 6. Portfolio Reviews**
- 7. Appendices**
 - The World Markets in the Fourth Quarter of 2011
 - Disclaimer, Glossary, and Notes

Meketa Investment Group Corporate Update

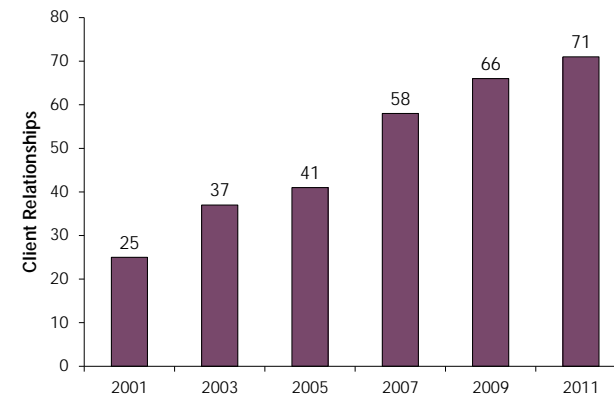
- Staff of 100, including 61 investment professionals and 17 CFA charterholders
- 71 clients, with over 140 funds throughout the United States
- Significant investment in staff and resources
- Offices in Boston, Miami, and San Diego
- Clients have aggregate assets of approximately \$300 billion
 - Over \$20 billion in assets committed to alternative investments

\$ Private Equity	\$ Infrastructure	\$ Natural Resources
\$ Real Estate	\$ Hedge Funds	\$ Commodities

Employee Growth



Client Growth



Meketa Investment Group is proud to work for 3.2 million American families everyday



Asset Classes Followed Intensively by Meketa Investment Group

Domestic Equities	International Equities	Private Equity	Real Assets	Fixed Income	Hedge Funds
<ul style="list-style-type: none"> - Passive - Enhanced Index - Large Cap - Midcap - Small Cap - Microcap - 130/30 	<ul style="list-style-type: none"> - Large Cap Developed - Small Cap Developed - Emerging Markets - Frontier Markets 	<ul style="list-style-type: none"> - Buyouts - Venture Capital - Private Debt - Special Situations - Secondaries - Fund of Funds 	<ul style="list-style-type: none"> - Public REITs - Core Real Estate - Value Added Real Estate - Opportunistic Real Estate - Infrastructure - Timber - Natural Resources - Commodities 	<ul style="list-style-type: none"> - Short-Term - Core - Core Plus - TIPS - High Yield - Bank Loans - Distressed - Global - Emerging Markets 	<ul style="list-style-type: none"> - Long/Short Equity - Event Driven - Relative Value - Fixed Income Arbitrage - Multi Strategy - Market Neutral - Global Macro - Fund of Funds - Portable Alpha

Executive Summary
As of December 31, 2011

In the fourth quarter, investors returned to risk assets due partly to improved economic data and hopes of a resolution to the sovereign debt issues in the Euro-zone.

- Real GDP growth in the U.S. was 2.8% in the fourth quarter, 1.0% above the level of the prior quarter. Continued slow growth is projected in 2012 with GDP estimates between 1.0% and 2.0%, according to the International Monetary Fund.
- In October, the Federal Reserve began their “Operation Twist” program designed to stimulate growth by further reducing long-term borrowing rates.
- The U.S. unemployment rate declined 0.6% during the fourth quarter, to 8.5%. Total nonfarm payrolls increased by 412,000 during the quarter, led by the private sector, while government sector employment was down slightly.
- In late December, the European Central Bank (ECB) announced it would make \$628 billion in liquidity available to 500 banks across Europe, through three-year loans.

Global equity markets rallied after the third quarter selloff, as strong corporate and better than expected economic data outweighed concerns over the sovereign debt crisis in the Euro-zone.

- Continued sovereign debt concerns in Europe, a weak quarter in Japan (-3.8%), and a strengthening U.S. dollar weighed on international equities. The domestic equity market, as proxied by the Russell 3000 index, rose 12.1%, while the developed international equity market, as proxied by the MSCI EAFE index, gained 3.3%.
- Emerging markets equities (+4.4%) outpaced developed international equities (+3.3%); however, they ended a volatile year down 18.4%.

Spread sectors outperformed government bonds due to investors’ renewed appetite for risk.

- The Barclays high yield index led fixed income markets during the quarter, returning 6.5%, compared to 2.7% and 1.1% for the Barclays TIPS and Aggregate indices, respectively.

The Pension Fund's total market value was \$1.57 billion as of December 31, 2011, up from \$1.51 billion at the end of the last quarter.

- The Fund returned 5.1% during the fourth quarter and 2.6% for the calendar year.
- All asset classes experienced positive returns during the quarter. Domestic equities were extremely strong gaining 10.2% during the quarter.
- All asset classes were within their respective target ranges on September 30 with the exception of real estate and private equity. Private equity comprised 14% of the portfolio versus a target of 10% and real estate comprised 4% of the Fund versus a target of 10%.
- The Pension Fund paid out \$13.5 million in benefits during the fourth quarter.

Domestic Equity

- The newly added Rhumblin QSI portfolio performed as expected, providing some downside protection. Since August the portfolio had a return of 1.4% versus a -2.8% return for the Russell 3000 Index.
- NorthPointe had an extremely weak year, returning -20.4% versus -2.9% for the Russell 2000 Growth. The portfolio was hurt by its holdings in the industrial and energy sectors.

International Equity

- Vontobel returned 1.4% for the calendar year, outperforming the MSCI EAFE Index by 13.5%. The portfolio's consumer staple exposure as well positions in the U.K. and France led to the strong performance. An underweight position in Financials was also beneficial.

Fixed Income

- Inflation protected securities experienced very strong returns in 2012. The JP Morgan Safety Reserve portfolio gained 13.3% during the year, despite negative real yields.

Natural Resources

- Natural Resources Fund V returned 1.6% over the past year, compared to a 12 month return of -13.4% for the Dow Jones UBS Commodities Index. Fund V's ability to short commodities in downward trending markets enabled them to significantly outperform.

Fund Governance

Investment Policy and Strategic Plan

- All investments are made and reviewed in the context of a formal, long-term, strategic investment plan.

Investment Manager Oversight

- All investment managers are provided with operating guidelines to ensure assets are managed consistent with the Fund's policy.
- All managers were in compliance with their investment guidelines.

Safety Reserve®

- The Safety Reserve® is designed to ensure benefit payments regardless of the financial market environment.
- Investments are made in only the safest securities and cash-flow matched against the worst-case benefit projections provided by the actuary.

Crisis Recovery Plan

- In an unforeseen crisis, Fund assets will be managed prudently and without disruption according to the annually reviewed Crisis Recovery Plan.

New managers and transfers

- Transferred \$10 million from Wellington Emerging Companies to Opportunistic Emerging Markets Debt in February 2011.
- Transferred \$20 million from DFA Int'l Small Cap to JPMorgan Fixed (\$10mm) and Shenkman Credos Floating Rate (\$10mm) in March 2011.
- Transferred \$10 million from Post to JPMorgan TIPS in March 2011.
- Transferred \$10 million from Northpointe and \$10 million from Wellington Emerging Companies to the Russell 1000 Index in April 2011.
- Replaced both the Investment Firm A accounts and the SSgA Total Market Index with the Russell 1000 Index in May 2011.
- Funded the Real Estate Fund XIII in July 2011.
- Funded the Rhumblin QSI Index in August 2011.
- Replaced Post with Fort Washington High Yield in September 2011.
- Transferred \$10 million from Fort Washington to Shenkman Credos in September 2011.
- Funded the AFL-CIO Housing Investment Trust fixed income strategy in September 2011.
- Funded the Hedge Fund I strategy in November 2011.

Private Market Commitments

- Made commitments to 4 Real Estate limited partnerships. The Fund's real estate partnerships called \$31.3 million in capital and distributed \$1.2 million.
- Made commitments to 3 Natural Resource partnerships. The Fund's natural resources partnerships called \$8.1 million in capital and distributed \$3.2 million.
- Made commitments to 1 Infrastructure partnership. The Fund's infrastructure partnerships called \$8.0 million in capital and distributed \$4.2 million.
- Made commitments to 11 Private Equity partnerships. The Fund's private equity partnerships called \$44.8 million in capital and distributed \$60.7 million.

Other items

- During 2011, the Fund paid out \$66.5 million in Pension benefits.
- Voted to convert the Payden and Rygel account to a Global Fixed Income strategy.

In 2011, Meketa Investment Group held 41 due diligence meetings or conference calls with the Plans' managers

- As a result of these meetings, Meketa Investment Group was able to conclude that there were no significant changes to firm resources or process that are expected to adversely affect investment results.
- Meketa Investment Group will continue to monitor managers proactively and report back to the Trustees.

Client Pension Fund

Investment Manager Monitor

Public Securities Managers	Guideline Compliance Checked (Yes/No)	Significant Events (Yes/No)	Last Meeting with Investment Committee	Last Meeting with Meketa Investment Group
AllianceBernstein	Yes	No	August 2007	July 2011
Artisan	Yes	No	July 2010	October 2011
Baird	Yes	No	July 2008	January 2012
DFA	Yes	No	April 2008	November 2011
Dodge & Cox	Yes	No	April 2009	September 2011
ERECT Fund	Yes	No	August 2006	April 2011
Franklin Templeton	Yes	No	July 2010	October 2011
HGK	Yes	No	--	February 2012
ING Clarion	Yes	No	April 2008	July 2011
Jennison	Yes	No	August 2007	November 2011
J.P. Morgan	Yes	No	--	September 2011
Loomis Sayles	Yes	No	August 2008	November 2011
Mount Lucas	Yes	No	October 2009	July 2011
NorthPointe	Yes	No	March 2010	December 2011
Payden & Rygel	Yes	No	March 2010	February 2011
PIMCO	Yes	No	March 2010	November 2011
Post	Yes	YES	April 2009	July 2011
Shenkman	Yes	No	March 2010	October 2011
SSgA	Yes	No	July 2009	January 2012
Sparta	Yes	No	March 2010	September 2011
Standard Pacific	Yes	No	March 2010	September 2011
T. Rowe Price	Yes	No	August 2008	September 2011
TimesSquare	Yes	No	August 2008	September 2011

Client Pension Fund

Investment Manager Monitor

Public Securities Managers (continued)	Guideline Compliance Checked (Yes/No)	Significant Events (Yes/No)	Last Meeting with Investment Committee	Last Meeting with Meketa Investment Group
ULLICO	Yes	No	October 2008	December 2011
Van Eck	Yes	No	April 2009	July 2011
Vontobel	Yes	No	June 2009	July 2011
Wellington	Yes	No	July 2010	October 2011

Private Equity Managers	Significant Events (Yes/No)	Last Meeting with Meketa Investment Group
Private Equity Manager A	No	February 2011
Private Equity Manager B	No	April 2010
Private Equity Manager C	No	February 2011
Private Equity Manager D	No	November 2010
Private Equity Manager E	No	July 2009
Private Equity Manager F	No	May 2010
Private Equity Manager G	No	May 2011
Private Equity Manager H	No	July 2010
Private Equity Manager I	No	June 2011
Private Equity Manager J	No	October 2011
Private Equity Manager K	No	June 2010
Private Equity Manager L	No	November 2010
Private Equity Manager M	No	May 2011
Private Equity Manager N	No	November 2010
Private Equity Manager O	No	October 2010
Private Equity Manager P	No	September 2010
Private Equity Manager Q	No	September 2010
Private Equity Manager R	No	November 2011
Private Equity Manager S	No	August 2010
Private Equity Manager T	No	September 2010
Private Equity Manager U	No	May 2010

Private Equity Managers (continued)	Significant Events (Yes/No)	Last Meeting with Meketa Investment Group
Private Equity Manager V	No	January 2011
Private Equity Manager W	No	December 2010
Private Equity Manager X	No	June 2011
Private Equity Manager Y	No	April 2010
Private Equity Manager Z	No	November 2010
Private Equity Manager AA	No	October 2008
Private Equity Manager BB	No	May 2010
Private Equity Manager CC	No	April 2011

Infrastructure Managers	Significant Events (Yes/No)	Last Meeting with Meketa Investment Group
Infrastructure Manager A	No	December 2010
Infrastructure Manager B	No	November 2010
Infrastructure Manager C	No	July 2009
Infrastructure Manager D	No	March 2009
Infrastructure Manager E	No	July 2011
Infrastructure Manager F	No	January 2012
Infrastructure Manager G	No	July 2010

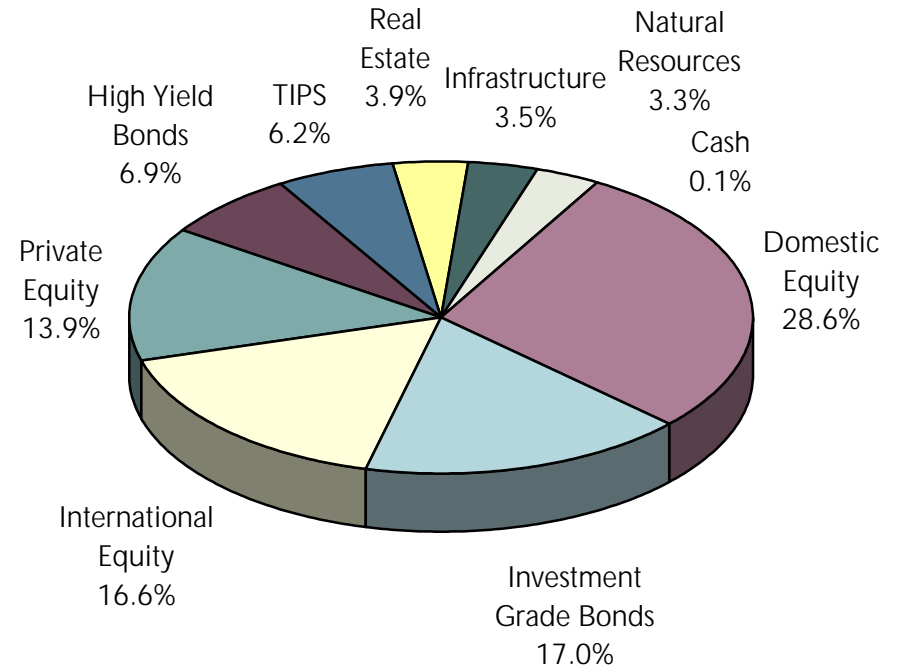
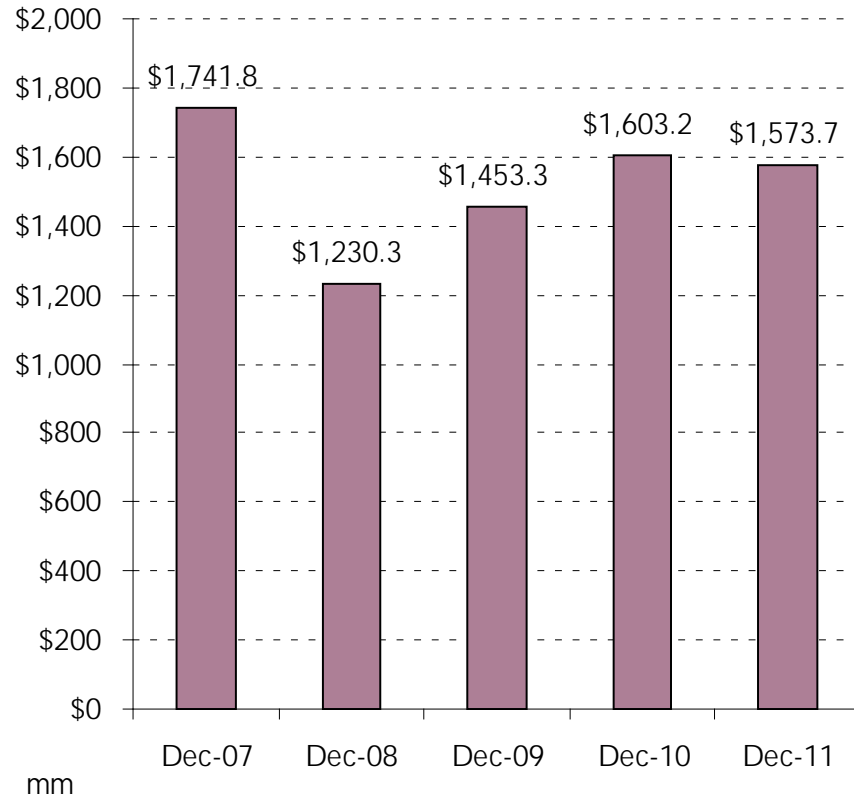
Natural Resources Managers	Significant Events (Yes/No)	Last Meeting with Meketa Investment Group
Natural Resources Manager A	No	January 2011
Natural Resources Manager B	No	November 2010
Natural Resources Manager C	No	June 2011

Real Estate Managers	Significant Events (Yes/No)	Last Meeting with Meketa Investment Group
Real Estate Manager A	No	July 2011
Real Estate Manager B	No	November 2010
Real Estate Manager C	No	July 2011
Real Estate Manager D	No	December 2010
Real Estate Manager E	No	October 2010

Fund Summary
As of December 31, 2011

Client Pension Fund

Aggregate Assets as of 12/31/11



Client Pension Fund

Aggregate Assets Asset Summary as of 12/31/11

	Market Value 12/31/11 (\$ mm)	% of Fund	Target Allocation (%)	Target Range (%)	Market Value 9/30/11 (\$ mm)
Total Fund	1,573.7	100	NA	NA	1,511.0
Domestic Equity Assets	450.5	29	27	22-32	411.7
International Equity Assets	260.7	17	18	13-23	249.5
Investment Grade Bond Assets	268.1	17	15	10-20	264.7
High Yield Assets	108.0	7	5	3-7	103.1
TIPS Assets	98.1	6	5	3-7	109.3
Private Equity Assets	218.5	14	10	7-13	215.9
Real Estate Assets	61.4	4	10	5-15	55.4
Infrastructure Assets	54.7	3	5	3-7	51.4
Natural Resources Assets	52.4	3	5	3-7	47.2
Cash	1.3	< 1	0	< 5	2.9



Client Pension Fund

Aggregate Assets Portfolio Roster as of 12/31/11

	Market Value 12/31/11 (\$ mm)	% of Asset Class	% of Fund	Target Allocation (%)	Target Range (%)	Market Value 9/30/11 (\$ mm)
Total Fund	1,573.7	NA	100	NA	NA	1,511.0
Domestic Equity Assets	450.5	100	29	27	22-32	411.7
RhumbLine QSI Index	99.4	22	6			88.7
SSgA Russell 1000 Index-NL	52.8	12	3			51.1
Jennison Large Cap Growth Equity	50.8	11	3			47.5
Dodge & Cox Equity	49.9	11	3			44.9
TimesSquare MidCap Growth	44.1	10	3			39.0
T. Rowe Price MidCap Value	42.1	9	3			38.3
Wellington Micro Cap	30.8	7	2			26.6
Standard Pacific Capital Offshore Fund, Ltd.	26.7	6	2			28.5
NorthPointe Focused Small Cap Growth Equity	23.7	5	2			21.2
Sparta Small Cap Growth Equity	16.9	4	1			15.4
Wellington Emerging Companies	12.0	3	< 1			10.6
Hedge Fund I	1.3	< 1	< 1			0.0
International Equity Assets	260.7	100	17	18	13-23	249.5
Vontobel International Equity	81.7	31	5			76.6
SSgA MSCI EAFE Index-NL	57.1	22	4			55.3
Artisan International Value	41.5	16	3			38.8



Client Pension Fund

Aggregate Assets Portfolio Roster as of 12/31/11

	Market Value 12/31/11 (\$ mm)	% of Asset Class	% of Fund	Target Allocation (%)	Target Range (%)	Market Value 9/30/11 (\$ mm)
International Equity Assets (continued)						
Dimensional Emerging Markets Value	27.8	11	2			26.8
Dimensional International Small Cap Value	19.8	8	1			19.6
Artisan International Small Cap	19.3	7	1			19.0
Templeton Frontier Markets	13.5	5	< 1			13.4
Investment Grade Bond Assets	268.1	100	17	15	10-20	264.7
PIMCO Total Return	84.8	32	5			83.4
Loomis Sayles Multi-Sector Full Discretion	46.3	17	3			46.6
Baird Advisors Core Plus Bond	40.5	15	3			40.0
Payden Core Fixed Income	32.9	12	2			32.5
Wellington Opportunistic Emerging Market Debt	26.2	10	2			25.1
ULLICO Separate Account W1	15.8	6	1			15.7
AFL-CIO Housing Investment Trust	10.2	4	< 1			10.0
ERECT Fund I	6.1	2	< 1			6.1
ULLICO "J for Jobs"	5.3	2	< 1			5.3



Client Pension Fund

Aggregate Assets Portfolio Roster as of 12/31/11

	Market Value 12/31/11 (\$ mm)	% of Asset Class	% of Fund	Target Allocation (%)	Target Range (%)	Market Value 9/30/11 (\$ mm)
High Yield Assets	108.0	100	7	5	3-7	103.1
Fort Washington High Yield	63.0	58	4			59.3
Shenkman Credos Floating Rate Fund, L.P.	41.3	38	3			40.1
Post Traditional High Yield	3.7	3	< 1			3.7
TIPS Assets	98.1	100	6	5	3-7	109.3
JPMorgan Safety Reserve (TIPS)	77.4	79	5			88.7
HGK Fixed Income	20.7	21	1			20.5
Private Equity Assets	218.5	100	14	10	7-13	215.9
Buyouts	123.9	57	8			122.1
Buyout Fund IX	13.3	6	< 1			12.6
Buyout Fund XIII	8.0	4	< 1			8.9
Buyout Fund X	7.9	4	< 1			7.5
Buyout Fund VIII	7.2	3	< 1			7.1
Buyout Fund XII	6.9	3	< 1			6.4
Buyout Fund XVIII	6.6	3	< 1			6.0
Buyout Fund XV	6.6	3	< 1			6.1
Buyout Fund VII	5.0	2	< 1			5.5
Buyout Fund XVI	4.9	2	< 1			5.7



Client Pension Fund

Aggregate Assets Portfolio Roster as of 12/31/11

	Market Value 12/31/11 (\$ mm)	% of Asset Class	% of Fund	Target Allocation (%)	Target Range (%)	Market Value 9/30/11 (\$ mm)
Private Equity Assets (continued)						
Buyout Fund XI	4.8	2	< 1			4.9
Buyout Fund III	4.8	2	< 1			6.2
Buyout Fund XIV	4.3	2	< 1			4.6
Buyout XVII	4.0	2	< 1			4.1
Buyout Fund XX	3.9	2	< 1			3.7
Buyout Fund V	3.8	2	< 1			3.6
Buyout Fund IV	3.1	1	< 1			3.5
Buyout Fund VI	2.9	1	< 1			3.1
Buyout Fund XXVIII	2.7	1	< 1			1.9
Buyout Fund XXVI	2.6	1	< 1			1.7
Buyout Fund XXV	2.3	1	< 1			2.2
Buyout Fund XXIV	2.1	< 1	< 1			2.2
Buyout Fund XXIX	1.9	< 1	< 1			1.8
Buyout Fund XXIII	1.8	< 1	< 1			1.8
Buyout Fund XXII	1.7	< 1	< 1			3.2
Buyout Fund II	1.6	< 1	< 1			2.0
Buyout Fund XXI	1.5	< 1	< 1			1.2



Client Pension Fund

Aggregate Assets Portfolio Roster as of 12/31/11

	Market Value 12/31/11 (\$ mm)	% of Asset Class	% of Fund	Target Allocation (%)	Target Range (%)	Market Value 9/30/11 (\$ mm)
Private Equity Assets (continued)						
Buyout Fund XXXVIII	1.5	< 1	< 1			1.2
Buyout Fund I	1.5	< 1	< 1			1.5
Buyout Fund XXXVII	1.0	< 1	< 1			0.6
Buyout Fund XXXXV	1.0	< 1	< 1			0.0
Buyout Fund XXXXIV	0.7	< 1	< 1			0.0
Buyout Fund XXVII	0.7	< 1	< 1			0.7
Buyout Fund XXXXIII	0.5	< 1	< 1			0.2
Buyout Fund XXXXII	0.4	< 1	< 1			0.0
Buyout Fund XXXXI	0.3	< 1	< 1			0.2
Buyout Fund IV	0.3	< 1	< 1			0.0
Buyout Fund XXXX	0.0	< 1	< 1			0.0
Buyout Fund XIX	0.0	0	0			0.0
Private Debt	44.1	20	3			44.8
Private Debt Fund III	8.6	4	< 1			8.7
Private Debt Fund VI	7.4	3	< 1			8.4
Private Debt Fund VII	6.0	3	< 1			5.8
Private Debt Fund II	5.4	2	< 1			6.5



Client Pension Fund

Aggregate Assets Portfolio Roster as of 12/31/11

	Market Value 12/31/11 (\$ mm)	% of Asset Class	% of Fund	Target Allocation (%)	Target Range (%)	Market Value 9/30/11 (\$ mm)
Private Equity Assets (continued)						
Private Debt Fund V	4.1	2	< 1			3.5
Private Debt Fund IV	4.1	2	< 1			4.0
Private Debt Fund VIII	3.7	2	< 1			3.4
Private Debt Fund I	3.6	2	< 1			3.8
Private Debt Fund VI	0.7	< 1	< 1			0.4
Private Debt Fund XIX	0.4	< 1	< 1			0.4
Venture Capital Funds	14.8	7	< 1			12.7
Venture Capital Fund I	4.0	2	< 1			4.2
Venture Capital Fund XVIII	3.0	1	< 1			2.1
Venture Capital Fund IV	3.0	1	< 1			2.2
Venture Capital Fund III	1.9	< 1	< 1			1.7
Venture Capital Fund II	0.9	< 1	< 1			0.9
Venture Capital Fund VIII	0.9	< 1	< 1			0.6
Venture Capital Fund V	0.6	< 1	< 1			0.5
Venture Capital Fund XXII	0.4	< 1	< 1			0.4
Venture Capital Fund XIX	0.2	< 1	< 1			0.2



Client Pension Fund

Aggregate Assets Portfolio Roster as of 12/31/11

	Market Value 12/31/11 (\$ mm)	% of Asset Class	% of Fund	Target Allocation (%)	Target Range (%)	Market Value 9/30/11 (\$ mm)
Private Equity Assets (continued)						
Special Situations	13.5	6	< 1			13.6
Special Situations Fund II	7.4	3	< 1			6.5
Special Situations Fund V	2.9	1	< 1			2.8
Special Situations Fund VI	1.4	< 1	< 1			1.5
Special Situations Fund I	1.3	< 1	< 1			2.4
Special Situations Fund VII	0.6	< 1	< 1			0.4
Fund of Funds	12.8	6	< 1			14.2
Fund of Funds I	12.8	6	< 1			14.2
Secondary	9.4	4	< 1			8.6
Secondary Fund II	5.2	2	< 1			5.4
Secondary Fund I	4.2	2	< 1			3.1
Real Estate Assets	61.4	100	4	10	5-15	55.4
Real Estate Fund I	20.4	33	1			19.1
Real Estate Fund XIII	15.2	25	< 1			12.0
Real Estate Fund II	9.6	16	< 1			9.0
Real Estate Fund XLIII	4.9	8	< 1			5.2
Real Estate Fund VI	4.3	7	< 1			4.6



Client Pension Fund

Aggregate Assets Portfolio Roster as of 12/31/11

	Market Value 12/31/11 (\$ mm)	% of Asset Class	% of Fund	Target Allocation (%)	Target Range (%)	Market Value 9/30/11 (\$ mm)
Real Estate Assets (continued)						
Real Estate Fund VIII	3.1	5	< 1			2.2
Real Estate Fund VII	1.9	3	< 1			2.1
Real Estate Fund XXXIII	0.9	1	< 1			0.9
Real Estate Fund LII	0.8	1	< 1			0.0
Real Estate Fund LIII	0.2	< 1	< 1			0.3
Real Estate Fund XVIII	0.1	< 1	< 1			0.0
Infrastructure Assets	54.7	100	3	5	3-7	51.4
Infrastructure Fund I	16.9	31	1			16.5
Infrastructure Fund II	15.6	29	< 1			16.1
Infrastructure Fund III	6.0	11	< 1			5.7
Infrastructure Fund IV	4.3	8	< 1			4.1
Infrastructure Fund V	3.1	6	< 1			3.0
Infrastructure Fund VIII	2.7	5	< 1			1.8
Infrastructure Fund VI	2.7	5	< 1			2.5
Infrastructure Fund XII	1.2	2	< 1			0.0
Infrastructure Fund VII	1.2	2	< 1			0.8
Infrastructure Fund IX	0.9	2	< 1			0.8



Client Pension Fund

Aggregate Assets Portfolio Roster as of 12/31/11

	Market Value 12/31/11 (\$ mm)	% of Asset Class	% of Fund	Target Allocation (%)	Target Range (%)	Market Value 9/30/11 (\$ mm)
Natural Resources Assets	52.4	100	3	5	3-7	47.2
Natural Resources Fund III	21.9	42	1			20.2
Natural Resources Fund V	10.2	19	< 1			10.4
Natural Resources Fund I	6.5	12	< 1			6.3
Natural Resources Fund II	4.0	8	< 1			3.3
Natural Resources Fund VI	2.8	5	< 1			2.3
Natural Resources Fund IX	2.3	4	< 1			2.0
Natural Resources Fund X	2.1	4	< 1			2.0
Natural Resources Fund XIII	0.9	2	< 1			0.1
Natural Resources Fund XIV	0.8	2	< 1			0.0
Natural Resources Fund XII	0.7	1	< 1			0.6
Natural Resources Fund XV	0.0	< 1	< 1			0.0
Cash	1.3	100	< 1	0	< 5	2.9
Payden Enhanced Cash	23.3					35.3
Master Account	1.3	100	< 1			2.9
State Street Bank STIF	0.0	0	0			0.0



Client Pension Fund

Aggregate Assets Performance as of 12/31/11

	4Q11 (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	20 YR (%)	Inception Date	Since Inception (%)
Total Fund	5.1	2.6	13.8	3.2	6.2	9.1	7/1/79	10.5
CPI (inflation)	-0.5	3.0	2.4	2.3	2.5	2.5		3.6
Domestic Equity	10.2	-1.9	17.5	0.7	5.1	NA	7/1/97	6.9
S&P 500	11.8	2.1	14.1	-0.3	2.9	7.8		4.3
Russell 3000	12.1	1.0	14.9	0.0	3.5	8.0		4.7
International Equity	4.6	-9.6	12.4	-1.9	6.3	NA	11/1/97	5.2
MSCI ACWI (ex. U.S.)	3.7	-13.7	10.7	-2.9	6.3	5.4		4.6
Fixed Income	2.6	7.6	12.6	7.2	6.1	6.7	7/1/79	8.4
Barclays Universal	1.4	7.4	7.7	6.4	6.0	6.6		NA
Real Estate	1.7	5.0	15.4	NA	NA	NA	7/1/08	2.0
NAREIT All	14.3	7.3	20.4	-2.1	9.5	10.2		4.3
NCREIF Property	3.0	14.3	2.4	3.1	8.1	8.1		-0.5
Natural Resources Assets	4.4	3.1	NA	NA	NA	NA	2/1/09	1.9
90-Day T-Bills + 4%	1.0	4.0	4.1	5.5	5.9	7.4		4.1



Client Pension Fund

Aggregate Assets Performance as of 12/31/11

	4Q11 (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	20 YR (%)	Inception Date	Since Inception (%)
Total Fund	5.1	2.6	13.8	3.2	6.2	9.1	7/1/79	10.5
CPI (inflation)	-0.5	3.0	2.4	2.3	2.5	2.5		3.6
Domestic Equity	10.2	-1.9	17.5	0.7	5.1	NA	7/1/97	6.9
RhumbLine QSI Index	12.1	NA	NA	NA	NA	NA	8/1/11	1.4
QSI Index	12.3	6.1	14.8	2.8	5.3	NA		1.6
Russell 3000	12.1	1.0	14.9	0.0	3.5	8.0		-2.8
SSgA Russell 1000 Index-NL	11.8	NA	NA	NA	NA	NA	5/1/11	-7.7
Russell 1000	11.8	1.5	14.8	0.0	3.3	8.0		-7.3
Jennison Large Cap Growth Equity	7.2	1.1	17.6	2.7	3.5	NA	1/1/96	7.1
Russell 1000 Growth	10.6	2.6	18.0	2.5	2.6	6.6		5.5
Dodge & Cox Equity	11.2	-3.6	13.6	-3.8	4.4	NA	9/1/00	5.7
Russell 1000 Value	13.1	0.4	11.5	-2.6	3.9	8.9		3.3
TimesSquare MidCap Growth	13.3	-0.7	18.0	4.1	NA	NA	4/1/06	4.8
Russell MidCap Growth	11.2	-1.7	22.1	2.4	5.3	8.2		2.6
T. Rowe Price MidCap Value	9.8	-4.5	19.4	1.9	8.8	NA	2/1/99	10.6
Russell MidCap Value	13.4	-1.4	18.2	0.0	7.7	11.0		7.7
Wellington Micro Cap	16.2	-3.2	30.2	4.8	NA	NA	6/1/06	5.8
Russell Microcap	13.8	-9.3	14.2	-3.8	4.7	NA		-1.9



Client Pension Fund

Aggregate Assets Performance as of 12/31/11

	4Q11 (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	20 YR (%)	Inception Date	Since Inception (%)
Domestic Equity (continued)								
Standard Pacific Capital Offshore Fund, Ltd.	-6.2	-4.5	NA	NA	NA	NA	7/1/10	5.1
HFRI Equity Hedge (Long/Short Equity)	2.2	-8.0	8.2	0.5	4.6	11.6		2.5
NorthPointe Focused Small Cap Growth Equity	12.1	-20.4	17.7	NA	NA	NA	10/1/08	4.1
Russell 2000 Growth	15.0	-2.9	19.0	2.1	4.5	5.8		6.4
Sparta Small Cap Growth Equity	10.0	-7.2	16.8	NA	NA	NA	10/1/08	6.9
Russell 2000 Growth	15.0	-2.9	19.0	2.1	4.5	5.8		6.4
Wellington Emerging Companies	13.4	-8.6	21.2	-0.6	8.3	NA	11/1/96	10.5
Russell 2000 Value	16.0	-5.5	12.4	-1.9	6.4	10.7		8.5
EnTrust Special Opportunities Fund II, Ltd.	NA	NA	NA	NA	NA	NA	12/1/11	NA
HFRI Relative Value Index	1.3	0.6	12.1	4.7	6.2	9.9		0.5
International Equity								
Vontobel International Equity	6.9	1.4	NA	NA	NA	NA	8/1/09	11.8
MSCI EAFE	3.3	-12.1	7.6	-4.7	4.7	4.6		2.4
SSgA MSCI EAFE Index-NL	3.3	-11.9	7.9	-4.4	NA	NA	10/1/06	-2.4
MSCI EAFE	3.3	-12.1	7.6	-4.7	4.7	4.6		-2.7



Client Pension Fund

Aggregate Assets Performance as of 12/31/11

	4Q11 (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	20 YR (%)	Inception Date	Since Inception (%)
International Equity (continued)								
Artisan International Value	7.1	-5.8	NA	NA	NA	NA	8/1/09	11.0
MSCI EAFE	3.3	-12.1	7.6	-4.7	4.7	4.6		2.4
Dimensional Emerging Markets Value	3.6	-25.6	20.4	3.2	NA	NA	7/1/06	7.4
MSCI Emerging Markets	4.4	-18.4	20.1	2.4	13.9	NA		6.2
Dimensional International Small Cap Value	1.4	-15.4	10.8	NA	NA	NA	9/1/08	-1.9
MSCI EAFE Small Cap	-0.6	-15.9	14.6	-4.1	9.0	NA		-0.9
Artisan International Small Cap	2.1	-13.5	NA	NA	NA	NA	10/1/10	-6.0
MSCI EAFE Small Cap	-0.6	-15.9	14.6	-4.1	9.0	NA		-4.9
Templeton Frontier Markets	0.5	-18.1	NA	NA	NA	NA	10/1/10	-9.8
MSCI Frontier Market	-1.9	-18.7	3.9	-6.1	NA	NA		-9.9
Fixed Income								
PIMCO Total Return	1.7	8.9	11.9	9.1	7.7	7.8	9/1/80	9.6
Barclays Gov't/Credit	1.2	8.7	6.6	6.5	5.9	6.6		8.8
JPMorgan Safety Reserve (TIPS)	2.6	13.3	10.3	8.0	5.6	NA	4/1/95	6.2
Custom Benchmark ¹	2.7	13.6	10.4	7.7	5.3	NA		5.9

¹ Through May 31, 2006, J.P. Morgan was benchmarked to the Barclays 1-3 Year Government index. Beginning June 1, 2006, the benchmark changed to 50% Barclays 1-3 Year Government index and 50% Barclays U.S. TIPS index. Beginning on November 1, 2007, the benchmark changed to the Barclays U.S. TIPS index.



Client Pension Fund

Aggregate Assets Performance as of 12/31/11

	4Q11 (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	20 YR (%)	Inception Date	Since Inception (%)
Fixed Income (continued)	2.6	7.6	12.6	7.2	6.1	6.7	7/1/79	8.4
Fort Washington High Yield	6.4	NA	NA	NA	NA	NA	10/1/11	6.4
Barclays High Yield BB/B	6.0	6.1	20.8	7.0	8.0	NA		6.0
Loomis Sayles Multi-Sector Full Discretion	2.2	4.5	18.3	7.7	7.2	NA	1/1/96	7.1
75% Barclays Credit / 25% Barclays HY	2.9	7.6	14.2	7.1	7.1	7.4		6.7
Shenkman Credos Floating Rate Fund, L.P.	3.0	1.0	NA	NA	NA	NA	6/1/10	4.7
CSFB Leveraged Loan	2.7	1.8	17.5	3.3	4.7	5.9		5.1
Baird Advisors Core Plus Bond	1.2	8.3	NA	NA	NA	NA	5/1/09	7.6
Barclays Aggregate	1.1	7.8	6.8	6.5	5.8	6.5		7.4
Payden Core Fixed Income	1.4	6.7	7.3	6.0	NA	NA	5/1/02	5.5
Barclays Aggregate	1.1	7.8	6.8	6.5	5.8	6.5		5.8
Wellington Opportunistic Emerging Market Debt	4.5	5.3	NA	NA	NA	NA	10/1/10	3.7
JPMorgan EMBI Global	5.1	8.5	15.9	8.1	11.0	NA		5.1
HGK Fixed Income	0.6	3.0	NA	NA	NA	NA	4/1/10	2.0
Merrill Lynch Treasury 1-3 Year	0.2	1.6	1.6	3.7	3.3	4.7		1.8
ULLICO Separate Account W1	1.1	4.5	NA	NA	NA	NA	1/1/10	2.8
Barclays Mortgage	0.9	6.2	5.8	6.5	5.7	6.4		5.8



Client Pension Fund

Aggregate Assets Performance as of 12/31/11

	4Q11 (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	20 YR (%)	Inception Date	Since Inception (%)
Fixed Income (continued)								
AFL-CIO Housing Investment Trust	1.5	NA	NA	NA	NA	NA	10/1/11	1.5
Barclays Mortgage	0.9	6.2	5.8	6.5	5.7	6.4		0.9
ERECT Fund I	0.6	1.9	2.2	4.1	NA	NA	12/1/06	4.0
Barclays Mortgage	0.9	6.2	5.8	6.5	5.7	6.4		6.4
ULLICO "J for Jobs"	0.6	3.5	-1.8	1.7	NA	NA	10/1/06	2.1
Barclays Mortgage	0.9	6.2	5.8	6.5	5.7	6.4		6.5
Real Estate	1.7	5.0	15.4	NA	NA	NA	7/1/08	2.0
Real Estate Fund I	6.9	-4.1	15.4	NA	NA	NA	8/1/08	-0.2
S&P/Citigroup BMI World Property Index	6.2	-5.7	13.9	-6.9	NA	NA		-1.9
Real Estate Fund XIII	2.4	NA	NA	NA	NA	NA	7/1/11	2.6
NCREIF Property	3.0	14.3	2.4	3.1	8.1	8.1		6.4
NCREIF ODCE	3.0	16.0	-1.8	-0.3	6.2	7.2		6.6
Natural Resources Assets	4.4	3.1	NA	NA	NA	NA	2/1/09	1.9
Natural Resources Fund III	8.7	-15.7	NA	NA	NA	NA	11/1/09	9.1
S&P Global Natural Resources	7.8	-14.9	8.8	2.4	NA	NA		0.8
Natural Resources Fund V	-1.8	1.6	NA	NA	NA	NA	4/1/10	1.1
Dow Jones-Commodity U.S. Index	0.3	-13.4	6.3	-3.3	5.4	5.1		3.6



Client Pension Fund

Aggregate Assets Performance as of 12/31/11

	4Q11 (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	20 YR (%)	Inception Date	Since Inception (%)
Cash								
Payden Enhanced Cash	0.1	0.5	1.3	1.6	2.1	NA	6/1/92	3.7
90-Day T-Bills	0.0	0.1	0.1	1.4	1.9	3.3		3.3



Client Pension Fund

Aggregate Assets Calendar Year Performance as of 12/31/11

	2011 (%)	2010 (%)	2009 (%)	2008 (%)	2007 (%)	2006 (%)	2005 (%)	2004 (%)	2003 (%)	2002 (%)
Total Fund	2.6	15.7	24.1	-26.7	8.3	13.1	6.8	13.1	27.1	-10.0
CPI (inflation)	3.0	1.5	2.7	0.1	4.1	2.5	3.4	3.3	1.9	2.4
Domestic Equity	-1.9	20.7	37.0	-39.3	5.0	14.7	8.0	15.6	36.0	-18.4
S&P 500	2.1	15.1	26.5	-37.0	5.5	15.8	4.9	10.9	28.7	-22.1
Russell 3000	1.0	16.9	28.3	-37.3	5.1	15.7	6.1	11.9	31.1	-21.5
International Equity	-9.6	14.2	37.3	-45.0	16.4	22.0	8.8	21.1	37.1	-7.7
MSCI ACWI (ex. U.S.)	-13.7	11.2	41.4	-45.5	16.7	26.7	16.6	20.9	40.8	-14.9
Fixed Income	7.6	9.3	21.3	-7.5	7.2	4.8	1.8	5.2	7.8	6.0
Barclays Universal	7.4	7.2	8.6	2.4	6.5	5.0	2.7	5.0	5.8	9.8
Real Estate	5.0	14.1	28.3	NA	NA	NA	NA	NA	NA	NA
NAREIT All	7.3	27.6	27.4	-37.3	-17.8	34.4	8.3	30.4	38.5	5.2
NCREIF Property	14.3	13.1	-16.9	-6.5	15.8	16.6	20.1	14.5	9.0	6.7
Natural Resources Assets	3.1	16.5	NA	NA	NA	NA	NA	NA	NA	NA
90-Day T-Bills + 4%	4.0	4.1	4.1	6.1	9.0	8.9	7.1	5.2	5.1	5.7



Client Pension Fund

Aggregate Assets Calendar Year Performance as of 12/31/11

	2011 (%)	2010 (%)	2009 (%)	2008 (%)	2007 (%)	2006 (%)	2005 (%)	2004 (%)	2003 (%)	2002 (%)
Total Fund	2.6	15.7	24.1	-26.7	8.3	13.1	6.8	13.1	27.1	-10.0
CPI (inflation)	3.0	1.5	2.7	0.1	4.1	2.5	3.4	3.3	1.9	2.4
Domestic Equity	-1.9	20.7	37.0	-39.3	5.0	14.7	8.0	15.6	36.0	-18.4
RhumbLine QSI Index										
QSI Index	6.1	15.1	24.0	-26.4	2.8	14.2	5.5	13.5	27.4	-16.2
Russell 3000	1.0	16.9	28.3	-37.3	5.1	15.7	6.1	11.9	31.1	-21.5
SSgA Russell 1000 Index-NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Russell 1000	1.5	16.1	28.4	-37.6	5.8	15.5	6.3	11.4	29.9	-21.7
Jennison Large Cap Growth Equity	1.1	12.1	43.7	-37.5	12.4	3.1	14.7	10.8	34.6	-29.8
Russell 1000 Growth	2.6	16.7	37.2	-38.4	11.8	9.1	5.3	6.3	29.7	-27.9
Dodge & Cox Equity	-3.6	14.1	33.2	-43.9	-0.1	19.3	9.5	19.9	33.4	-10.2
Russell 1000 Value	0.4	15.5	19.7	-36.8	-0.2	22.2	7.1	16.5	30.0	-15.5
TimesSquare MidCap Growth	-0.7	19.3	38.7	-32.9	10.9	NA	NA	NA	NA	NA
Russell MidCap Growth	-1.7	26.4	46.3	-44.3	11.4	10.6	12.1	15.5	42.7	-27.4
T. Rowe Price MidCap Value	-4.5	18.8	50.0	-36.2	1.0	22.4	8.3	22.6	41.2	-7.3
Russell MidCap Value	-1.4	24.8	34.2	-38.4	-1.4	20.2	12.6	23.7	38.1	-9.6
Wellington Micro Cap	-3.2	42.5	59.9	-47.2	8.3	NA	NA	NA	NA	NA
Russell Microcap	-9.3	28.9	27.5	-39.8	-8.0	16.5	3.1	14.1	66.4	-16.1



Client Pension Fund

Aggregate Assets Calendar Year Performance as of 12/31/11

	2011 (%)	2010 (%)	2009 (%)	2008 (%)	2007 (%)	2006 (%)	2005 (%)	2004 (%)	2003 (%)	2002 (%)
Domestic Equity (continued)										
Standard Pacific Capital Offshore Fund, Ltd.	-4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFRI Equity Hedge (Long/Short Equity)	-8.0	10.5	24.6	-26.6	10.5	11.7	10.6	7.7	20.5	-4.7
NorthPointe Focused Small Cap Growth Equity	-20.4	48.0	38.5	NA	NA	NA	NA	NA	NA	NA
Russell 2000 Growth	-2.9	29.1	34.5	-38.5	7.0	13.3	4.2	14.3	48.5	-30.3
Sparta Small Cap Growth Equity	-7.2	25.4	36.8	NA	NA	NA	NA	NA	NA	NA
Russell 2000 Growth	-2.9	29.1	34.5	-38.5	7.0	13.3	4.2	14.3	48.5	-30.3
Wellington Emerging Companies	-8.6	33.2	46.4	-44.5	-2.0	17.2	10.0	25.1	61.4	-12.3
Russell 2000 Value	-5.5	24.5	20.6	-28.9	-9.8	23.5	4.7	22.2	46.0	-11.4
EnTrust Special Opportunities Fund II, Ltd.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFRI Relative Value Index	0.6	11.4	25.8	-18.0	8.9	12.3	6.0	5.6	9.7	5.4
International Equity	-9.6	14.2	37.3	-45.0	16.4	22.0	8.8	21.1	37.1	-7.7
Vontobel International Equity	1.4	13.5	NA	NA	NA	NA	NA	NA	NA	NA
MSCI EAFE	-12.1	7.7	31.8	-43.4	11.2	26.3	13.5	20.2	38.6	-15.9
SSgA MSCI EAFE Index-NL	-11.9	8.0	32.2	-43.1	11.4	NA	NA	NA	NA	NA
MSCI EAFE	-12.1	7.7	31.8	-43.4	11.2	26.3	13.5	20.2	38.6	-15.9
Artisan International Value	-5.8	20.8	NA	NA	NA	NA	NA	NA	NA	NA
MSCI EAFE	-12.1	7.7	31.8	-43.4	11.2	26.3	13.5	20.2	38.6	-15.9



Client Pension Fund

Aggregate Assets Calendar Year Performance as of 12/31/11

	2011 (%)	2010 (%)	2009 (%)	2008 (%)	2007 (%)	2006 (%)	2005 (%)	2004 (%)	2003 (%)	2002 (%)
International Equity (continued)										
Dimensional Emerging Markets Value	-25.6	22.0	92.1	-53.9	45.6	NA	NA	NA	NA	NA
MSCI Emerging Markets	-18.4	18.9	78.5	-53.3	39.4	32.2	34.0	25.6	55.8	-6.2
Dimensional International Small Cap Value	-15.4	15.2	39.5	NA	NA	NA	NA	NA	NA	NA
MSCI EAFE Small Cap	-15.9	22.0	46.8	-47.0	1.4	19.3	26.2	30.8	61.3	-7.8
Artisan International Small Cap	-13.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MSCI EAFE Small Cap	-15.9	22.0	46.8	-47.0	1.4	19.3	26.2	30.8	61.3	-7.8
Templeton Frontier Markets	-18.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
MSCI Frontier Market	-18.7	23.8	11.6	-54.1	41.9	-8.9	72.7	22.6	43.5	NA



Client Pension Fund

Aggregate Assets Calendar Year Performance as of 12/31/11

	2011 (%)	2010 (%)	2009 (%)	2008 (%)	2007 (%)	2006 (%)	2005 (%)	2004 (%)	2003 (%)	2002 (%)
Fixed Income	7.6	9.3	21.3	-7.5	7.2	4.8	1.8	5.2	7.8	6.0
PIMCO Total Return	8.9	9.7	17.2	0.7	9.4	4.3	3.4	5.2	7.2	11.4
Barclays Gov't/Credit	8.7	6.6	4.5	5.7	7.2	3.8	2.3	4.2	4.7	11.0
JPMorgan Safety Reserve (TIPS)	13.3	7.1	10.5	-1.1	11.0	4.1	1.8	0.7	2.3	7.8
Custom Benchmark ¹	13.6	6.3	11.4	-2.4	10.4	3.8	1.7	1.1	2.0	6.0
Fort Washington High Yield	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barclays High Yield BB/B	6.1	14.3	45.4	-22.5	2.5	10.7	3.2	10.0	23.3	-0.5
Barclays High Yield	5.0	15.1	58.2	-26.2	1.9	11.8	2.7	11.1	29.0	-1.4
Loomis Sayles Multi-Sector Full Discretion	4.5	13.7	39.3	-17.3	6.0	8.9	2.8	9.5	19.2	-5.1
75% Barclays Credit / 25% Barclays HY	7.6	10.1	25.6	-9.2	4.3	6.1	2.2	6.7	12.7	7.6
Shenkman Credos Floating Rate Fund, L.P.	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
CSFB Leveraged Loan	1.8	10.0	44.9	-28.8	1.9	7.2	5.7	5.6	11.0	1.1
Baird Advisors Core Plus Bond	8.3	6.8	NA	NA	NA	NA	NA	NA	NA	NA
Barclays Aggregate	7.8	6.5	5.9	5.2	7.0	4.3	2.4	4.3	4.1	10.3

¹ Through May 31, 2006, J.P. Morgan was benchmarked to the Barclays 1-3 Year Government index. Beginning June 1, 2006, the benchmark changed to 50% Barclays 1-3 Year Government index and 50% Barclays U.S. TIPS index. Beginning on November 1, 2007, the benchmark changed to the Barclays U.S. TIPS index.



Client Pension Fund

Aggregate Assets Calendar Year Performance as of 12/31/11

	2011 (%)	2010 (%)	2009 (%)	2008 (%)	2007 (%)	2006 (%)	2005 (%)	2004 (%)	2003 (%)	2002 (%)
Fixed Income (continued)										
Payden Core Fixed Income	6.7	6.9	8.4	2.4	5.5	3.8	1.7	4.8	4.4	NA
Barclays Aggregate	7.8	6.5	5.9	5.2	7.0	4.3	2.4	4.3	4.1	10.3
Wellington Opportunistic Emerging Market Debt	5.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
JPMorgan EMBI Global	8.5	12.0	28.2	-10.9	6.3	9.9	10.7	11.7	25.7	13.1
HGK Fixed Income	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Merrill Lynch Treasury 1-3 Year	1.6	2.3	0.8	6.6	7.3	4.0	1.7	0.9	1.9	5.8
ULLICO Separate Account W1	4.5	1.2	NA	NA	NA	NA	NA	NA	NA	NA
Barclays Mortgage	6.2	5.4	5.9	8.3	6.9	5.2	2.6	4.7	3.1	8.7
AFL-CIO Housing Investment Trust	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barclays Mortgage	6.2	5.4	5.9	8.3	6.9	5.2	2.6	4.7	3.1	8.7
ERECT Fund I	1.9	5.6	-0.9	6.4	7.8	NA	NA	NA	NA	NA
Barclays Mortgage	6.2	5.4	5.9	8.3	6.9	5.2	2.6	4.7	3.1	8.7
ULLICO "J for Jobs"	3.5	-0.6	-7.8	5.3	9.1	NA	NA	NA	NA	NA
Barclays Mortgage	6.2	5.4	5.9	8.3	6.9	5.2	2.6	4.7	3.1	8.7



Client Pension Fund

Aggregate Assets Calendar Year Performance as of 12/31/11

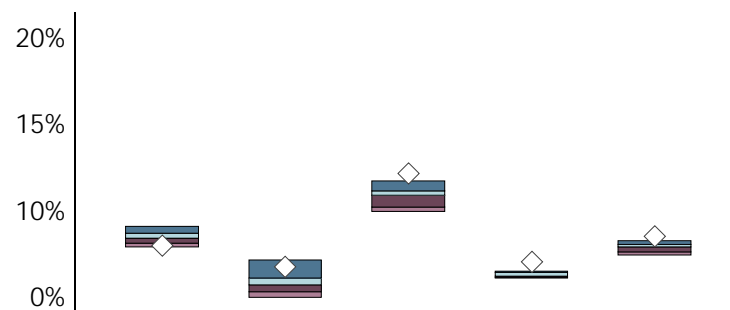
	2011 (%)	2010 (%)	2009 (%)	2008 (%)	2007 (%)	2006 (%)	2005 (%)	2004 (%)	2003 (%)	2002 (%)
Real Estate	5.0	14.1	28.3	NA	NA	NA	NA	NA	NA	NA
Real Estate Fund I	-4.1	17.0	36.9	NA	NA	NA	NA	NA	NA	NA
S&P/Citigroup BMI World Property Index	-5.7	17.8	32.9	-46.7	-11.1	NA	NA	NA	NA	NA
Real Estate Fund XIII	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NCREIF Property	14.3	13.1	-16.9	-6.5	15.8	16.6	20.1	14.5	9.0	6.7
NCREIF ODCE	16.0	16.4	-29.9	-10.0	16.0	16.3	21.4	13.1	9.3	5.5
Natural Resources Assets	3.1	16.5	NA	NA	NA	NA	NA	NA	NA	NA
Natural Resources Fund III	-15.7	30.0	NA	NA	NA	NA	NA	NA	NA	NA
S&P Global Natural Resources	-14.9	11.0	36.1	-38.3	41.7	29.8	26.8	24.4	41.6	NA
Natural Resources Fund V	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dow Jones-Commodity U.S. Index	-13.4	16.7	18.7	-36.6	11.1	-2.7	21.4	9.1	23.9	25.9
Cash										
Payden Enhanced Cash	0.5	1.1	2.3	-0.2	4.2	4.9	3.0	1.4	1.4	2.5
90-Day T-Bills	0.1	0.1	0.2	2.1	4.9	4.7	2.8	1.2	1.1	1.8



Client Pension Fund

Aggregate Assets Universe Comparison as of 12/31/11

Total Fund vs. Master Universe



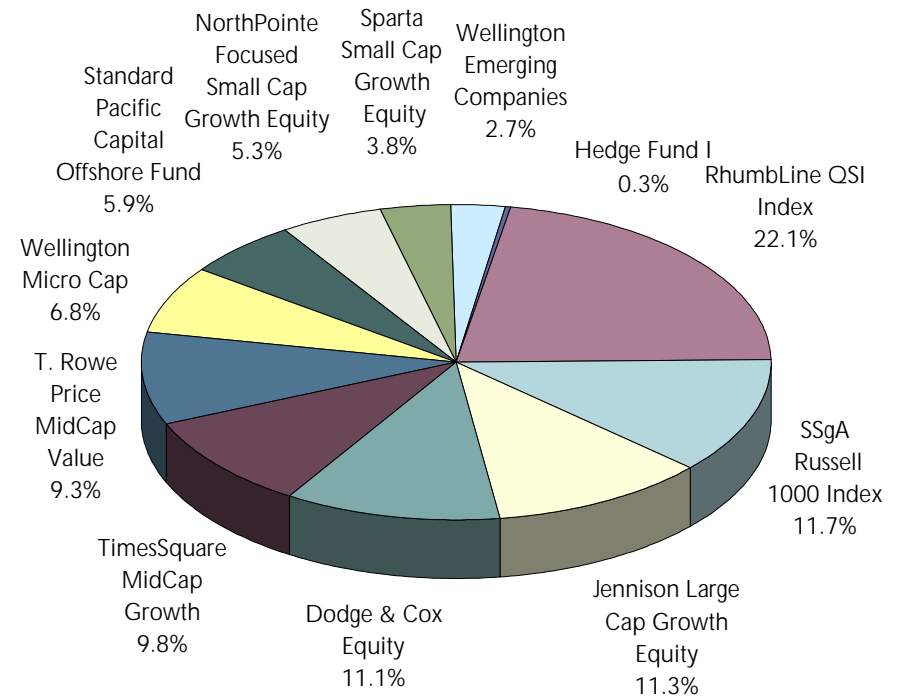
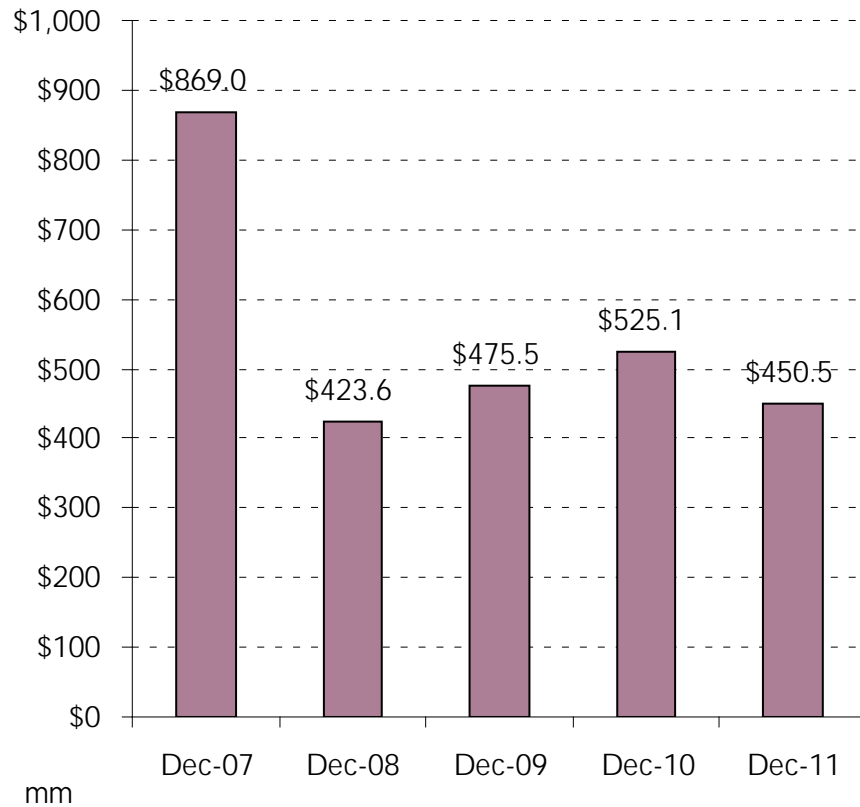
	4Q11 (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)
Total Fund	5.1	2.6	13.8	3.2	6.2
25th percentile	6.6	1.2	11.7	1.9	5.3
Median	6.0	.04	11.1	1.5	5.0
75th percentile	5.4	-0.4	9.7	1.3	4.4
60% Wilshire 5000 / 40% Barclays Aggregate	7.7	4.1	12.2	3.2	5.0

Fund Detail

Domestic Equity Assets As of December 31, 2011

Client Pension Fund

Domestic Equity Assets as of 12/31/11



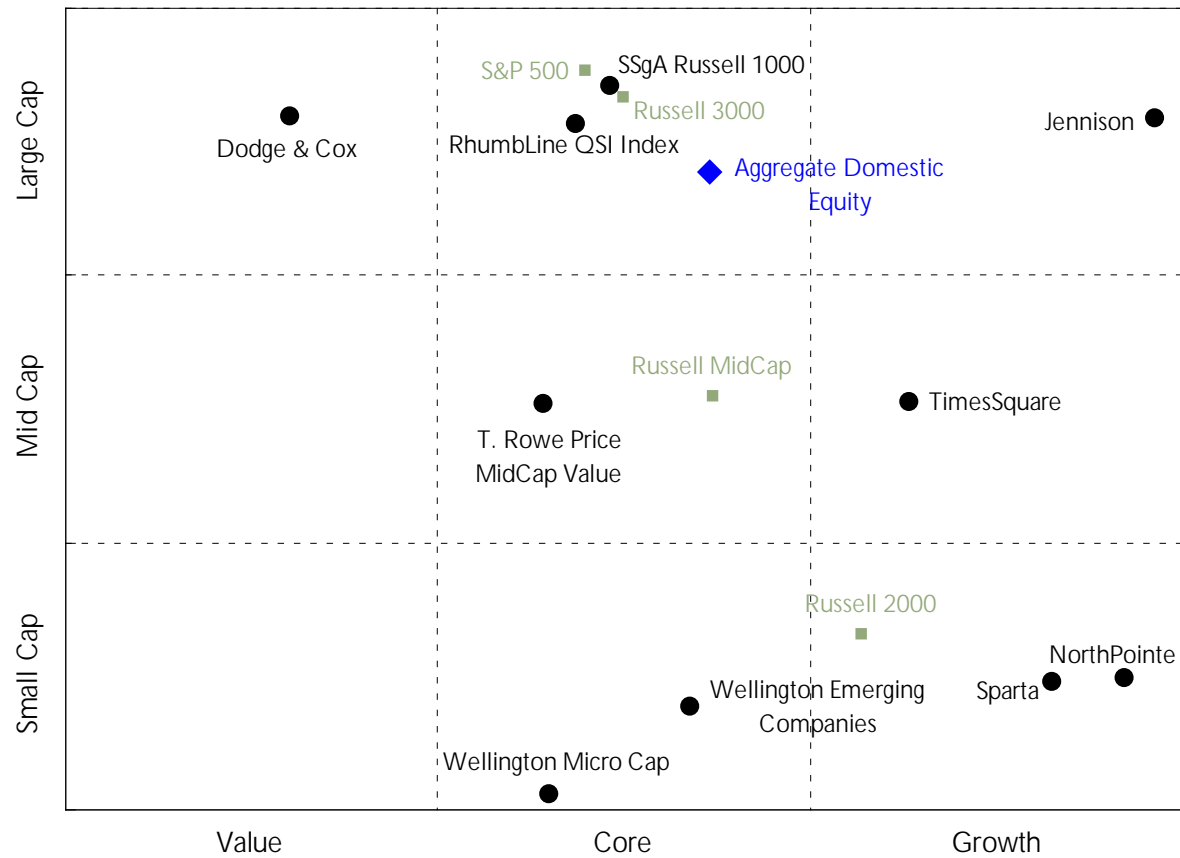
Client Pension Fund

Domestic Equity Assets Risk as of 12/31/11

Risk: (sixty months)	Aggregate Domestic Equity 12/31/11	Russell 3000 12/31/11
Annualized Return (%)	0.7	0.0
Standard Deviation (%)	21.4	20.1
Best Monthly Return (%)	13.5	11.5
Worst Monthly Return (%)	-18.6	-17.7
Beta	1.05	1.00
Correlation (R^2) to Index	0.99	1.00
Correlation to Total Fund Return	0.97	NA
Sharpe Measure (risk-adjusted return) ¹	Neg.	Neg.
Information Ratio	0.26	NA

¹ A negative Sharpe ratio indicates that the portfolio underperformed the risk-free rate during the sample period.





Client Pension Fund

Domestic Equity Assets Characteristics as of 12/31/11

	Aggregate Domestic Equity 12/31/11	Russell 3000 12/31/11	Aggregate Domestic Equity 9/30/11
Capitalization Structure:			
Weighted Average Market Cap. (US\$ billion)	44.4	78.3	40.8
Median Market Cap. (US\$ billion)	3.5	0.9	3.2
Large (% over US\$10 billion)	54	73	52
Medium (% US\$2 billion to US\$10 billion)	24	19	26
Small (% under US\$2 billion)	22	7	23
Fundamental Structure:			
Price-Earnings Ratio	20	18	18
Price-Book Value Ratio	3.3	3.2	3.0
Dividend Yield (%)	1.6	2.0	1.7
Historical Earnings Growth Rate (%)	8	8	8
Projected Earnings Growth Rate (%)	12	11	12

Client Pension Fund

Domestic Equity Assets Diversification as of 12/31/11

Diversification:	Aggregate Domestic Equity 12/31/11	Russell 3000 12/31/11	Aggregate Domestic Equity 9/30/11
Number of Holdings	1,377	2,946	1,374
% in 5 largest holdings	5	10	5
% in 10 largest holdings	9	17	9

Largest Five Holdings:	% of Portfolio	Economic Sector
ExxonMobil	1.3	Energy
Microsoft	1.0	Software & Services
IBM	1.0	Software & Services
Apple	1.0	Technology Hardware
Schlumberger	0.9	Energy

Client Pension Fund

Domestic Equity Assets Sector Allocation as of 12/31/11

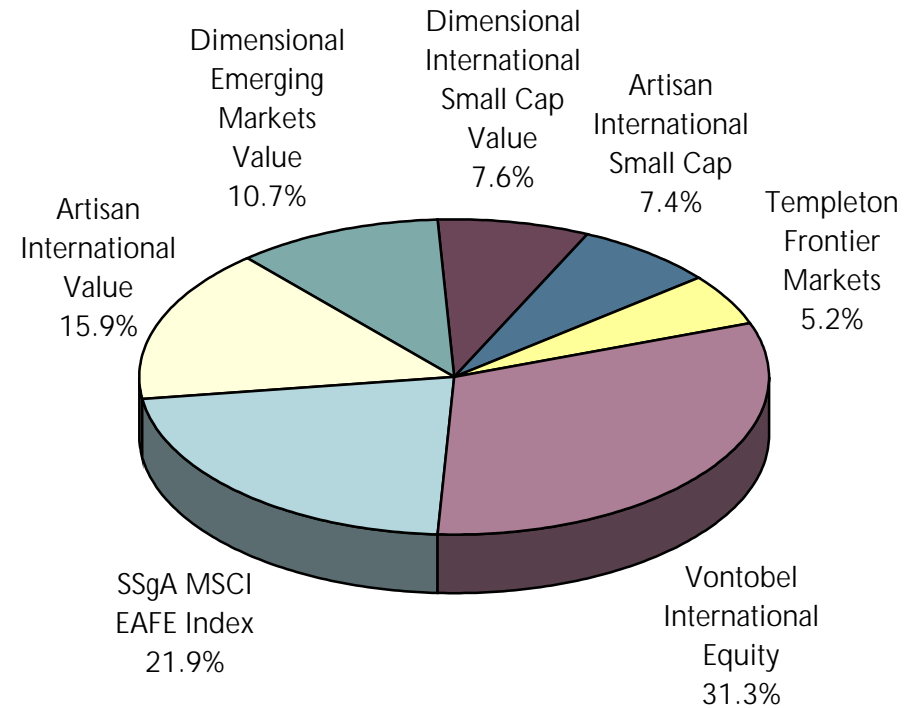
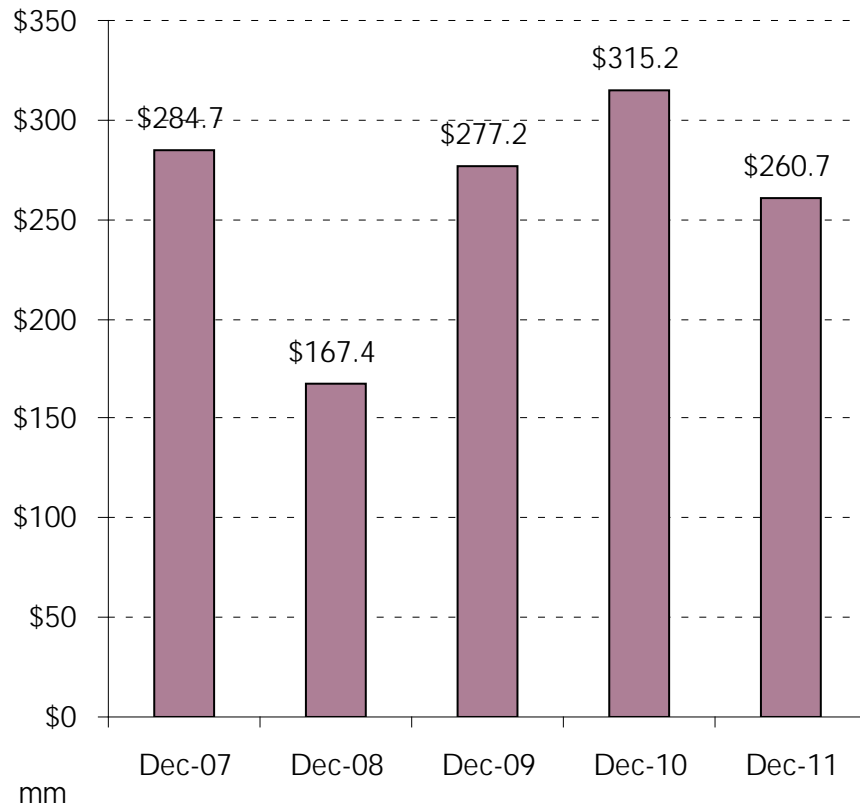
Sector Allocation (%):	Aggregate Domestic Equity 12/31/11	Russell 3000 12/31/11	Aggregate Domestic Equity 9/30/11
Information Technology	22	18	22
Consumer Discretionary	14	12	15
Materials	5	4	5
Health Care	13	12	13
Industrials	12	11	11
Telecom	2	3	2
Energy	10	11	9
Financials	14	15	13
Utilities	2	4	3
Consumer Staples	6	10	7



International Equity Assets As of December 31, 2011

Client Pension Fund

International Equity Assets as of 12/31/11



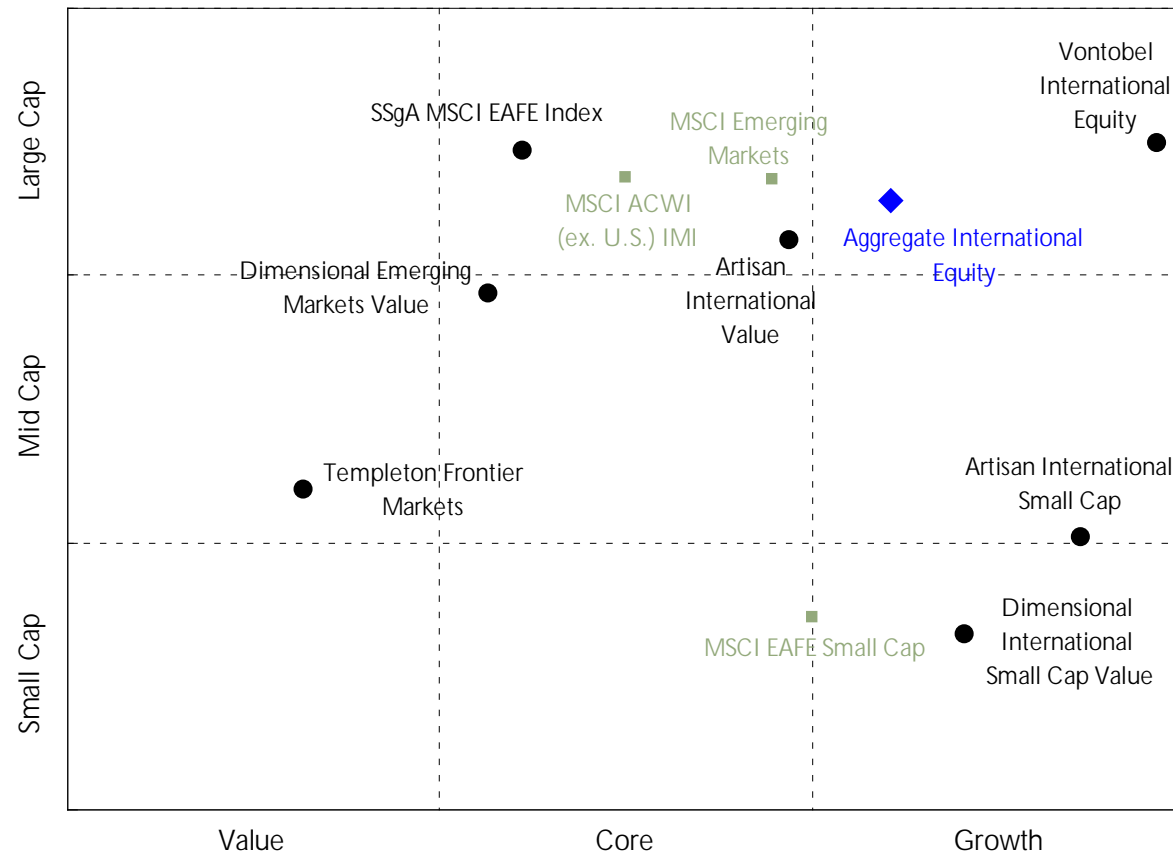
Client Pension Fund

International Equity Assets Risk as of 12/31/11

Risk: (sixty months)	Aggregate International Equity 12/31/11	MSCI ACWI (ex. U.S.) 12/31/11
Annualized Return (%)	-1.9	-2.9
Standard Deviation (%)	23.3	23.9
Best Monthly Return (%)	13.0	13.6
Worst Monthly Return (%)	-23.4	-22.0
Beta	0.96	1.00
Correlation (R ²) to Index	0.99	1.00
Correlation to Total Fund Return	0.97	NA
Sharpe Measure (risk-adjusted return) ¹	Neg.	Neg.
Information Ratio	0.33	NA

¹ A negative Sharpe ratio indicates that the portfolio underperformed the risk-free rate during the sample period.





Client Pension Fund

International Equity Assets Characteristics as of 12/31/11

	Aggregate International Equity 12/31/11	MSCI ACWI (ex. U.S.) 12/31/11	Aggregate International Equity 9/30/11
Capitalization Structure:			
Weighted Average Market Cap. (US\$ billion)	35.5	48.1	31.9
Median Market Cap. (US\$ million)	381	5,492	382
Large (% over US\$10 billion)	55	74	53
Medium (% US\$2 billion to US\$10 billion)	27	24	28
Small (% under US\$2 billion)	18	1	19
Fundamental Structure:			
Price-Earnings Ratio	16	15	16
Price-Book Value Ratio	2.9	2.3	2.7
Dividend Yield (%)	3.1	3.4	3.3
Historical Earnings Growth Rate (%)	8	6	9
Projected Earnings Growth Rate (%)	11	8	9

Client Pension Fund

International Equity Assets Diversification as of 12/31/11

Diversification:	Aggregate International Equity 12/31/11	MSCI ACWI (ex. U.S.) 12/31/11	Aggregate International Equity 9/30/11
Number of Holdings	5,451	1,846	5,532
% in 5 largest holdings	9	5	9
% in 10 largest holdings	15	10	14

Largest Five Holdings:	% of Portfolio	Economic Sector
Nestle	2.1	Food Beverage & Tobacco
British American Tobacco	1.8	Food Beverage & Tobacco
Novartis	1.6	Pharmaceuticals & Biotech
Imperial Tobacco	1.6	Food Beverage & Tobacco
Philip Morris International	1.6	Food Beverage & Tobacco

Client Pension Fund

International Equity Assets Sector Allocation as of 12/31/11

Sector Allocation (%):	Aggregate International Equity 12/31/11	MSCI ACWI (ex. U.S.) 12/31/11	Aggregate International Equity 9/30/11
Consumer Staples	21	10	22
Consumer Discretionary	13	9	13
Industrials	13	11	13
Health Care	8	7	8
Utilities	3	4	3
Information Technology	5	6	5
Materials	8	12	8
Energy	8	12	7
Telecom	3	6	3
Financials	18	23	18



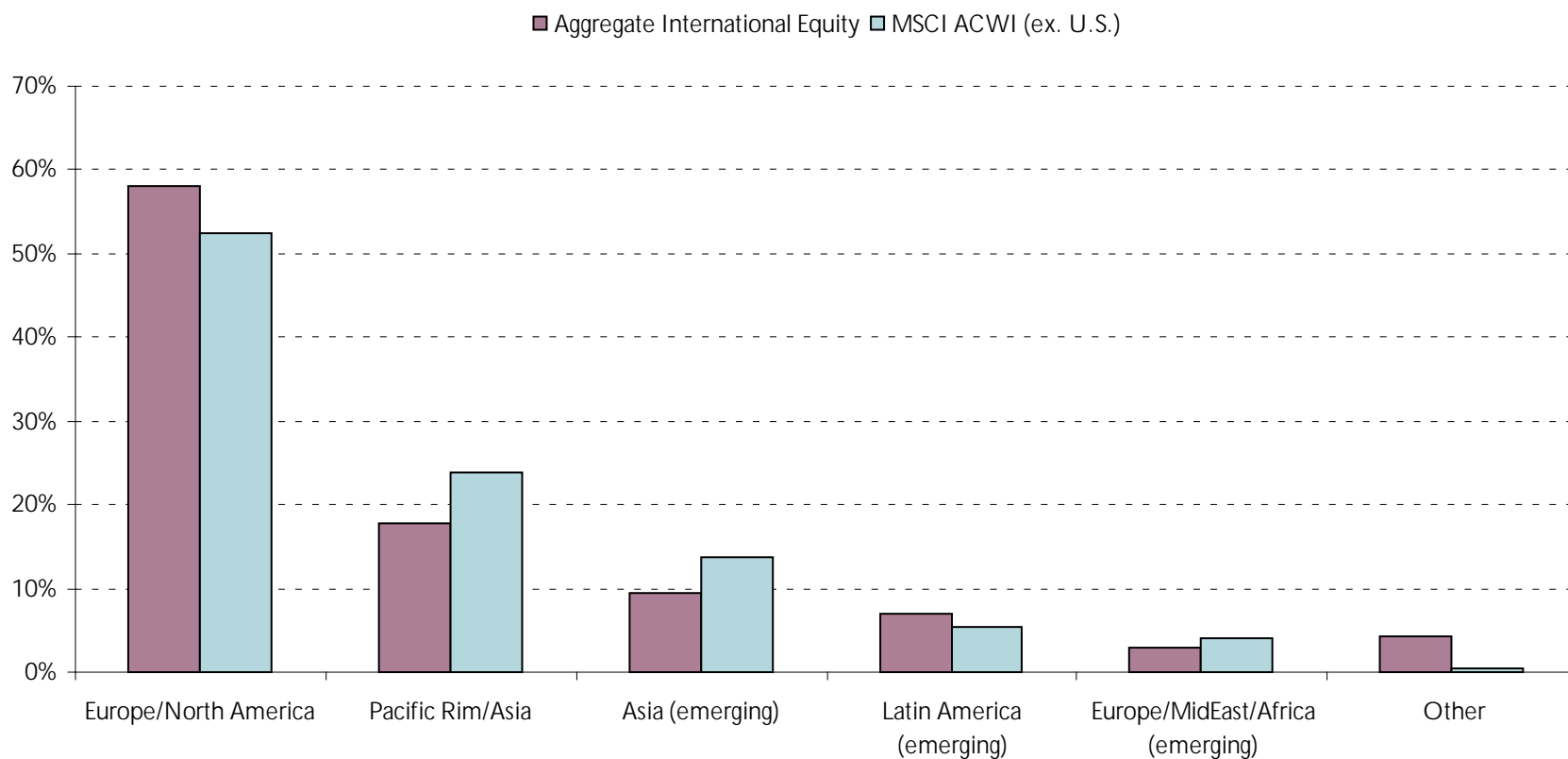
Client Pension Fund

International Equity Assets Country & Region Breakdown as of 12/31/11

	Aggregate International Equity 12/31/11 (%)	MSCI ACWI (ex. U.S.) 12/31/11 (%)
Europe/North America	58.1	52.5
United States	6.1	0.0
United Kingdom	19.5	15.9
Netherlands	3.1	1.7
Switzerland	6.9	5.9
Denmark	1.7	0.7
Ireland	1.1	0.2
Belgium	1.4	0.6
France	6.3	6.2
Italy	1.2	1.6
Germany	5.0	5.4
Sweden	1.1	2.1
Canada	2.9	8.4
Pacific Rim/Asia	17.8	23.8
Singapore	1.3	1.1
Hong Kong	1.8	1.9
Australia	4.2	5.9
Japan	10.4	14.8

	Aggregate International Equity 12/31/11 (%)	MSCI ACWI (ex. U.S.) 12/31/11 (%)
Asia (emerging)	9.4	13.8
India	1.7	1.4
China	3.0	4.2
Taiwan	1.4	2.6
South Korea	1.6	3.5
Latin America (emerging)	6.9	5.4
Brazil	5.4	3.5
Europe/MidEast/Africa (emerging)	3.0	4.2
Russia	1.1	1.5
South Africa	1.0	1.8
Other	4.2	0.4

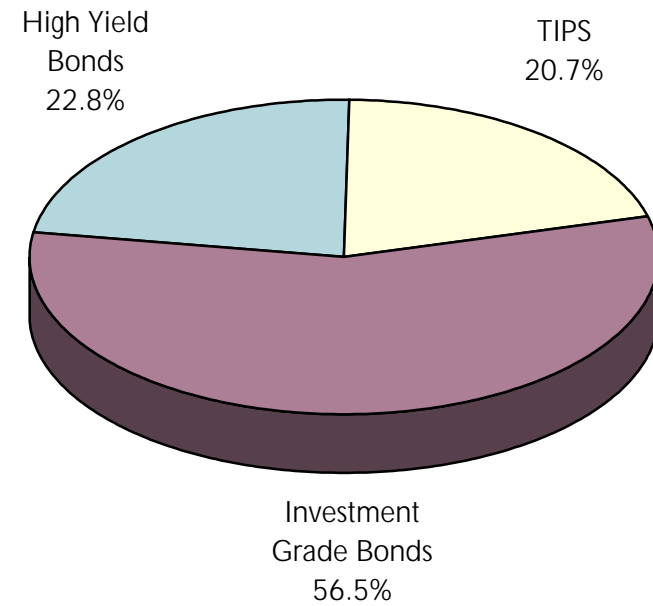
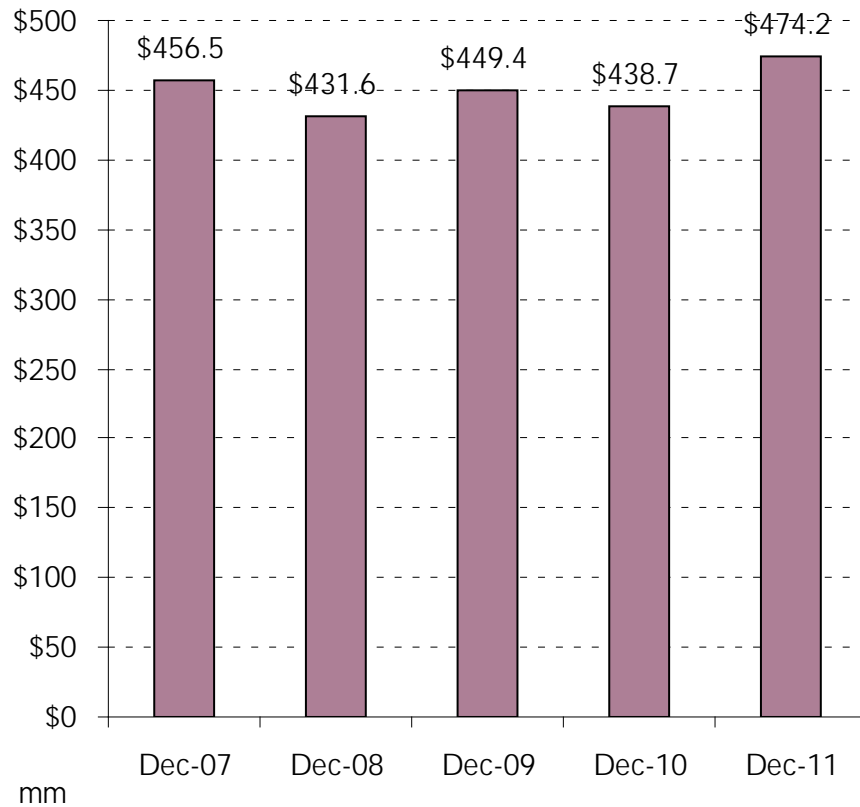




Fixed Income Assets
As of December 31, 2011

Client Pension Fund

Fixed Income Assets as of 12/31/11



Client Pension Fund

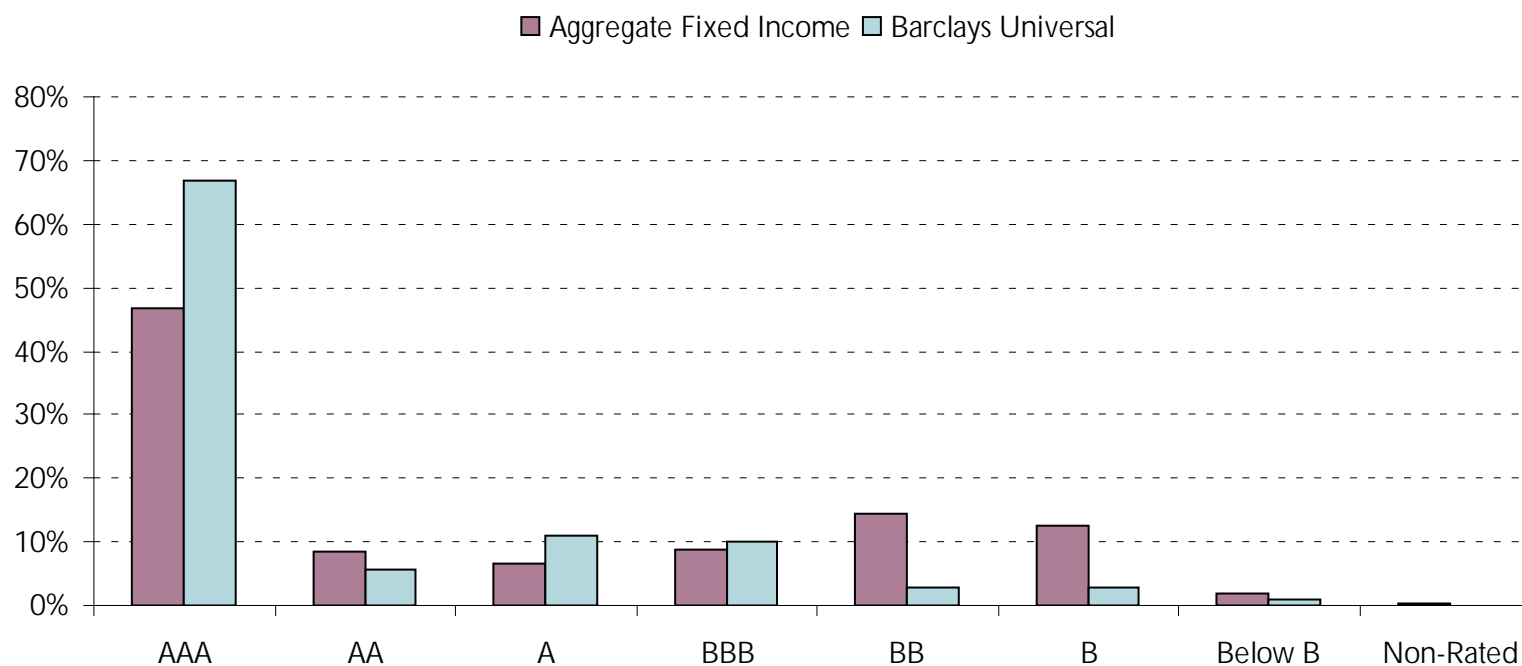
Fixed Income Assets Risk as of 12/31/11

Risk: (sixty months)	Aggregate Fixed Income 12/31/11	Barclays Universal 12/31/11
Annualized Return (%)	7.2	6.4
Standard Deviation (%)	6.7	4.0
Best Monthly Return (%)	5.3	3.8
Worst Monthly Return (%)	-7.5	-3.6
Beta	1.40	1.00
Correlation (R^2) to Index	0.84	1.00
Correlation to Total Fund Return	0.68	NA
Sharpe Measure (risk-adjusted return)	0.86	1.24
Information Ratio	0.22	NA

Client Pension Fund

Fixed Income Assets Characteristics as of 12/31/11

Duration & Yield:	Aggregate Fixed Income 12/31/11	Barclays Universal 12/31/11	Aggregate Fixed Income 9/30/11
Average Effective Duration (years)	4.7	4.9	4.6
Yield to Maturity (%)	4.2	2.8	4.8



Client Pension Fund

Fixed Income Assets Diversification as of 12/31/11

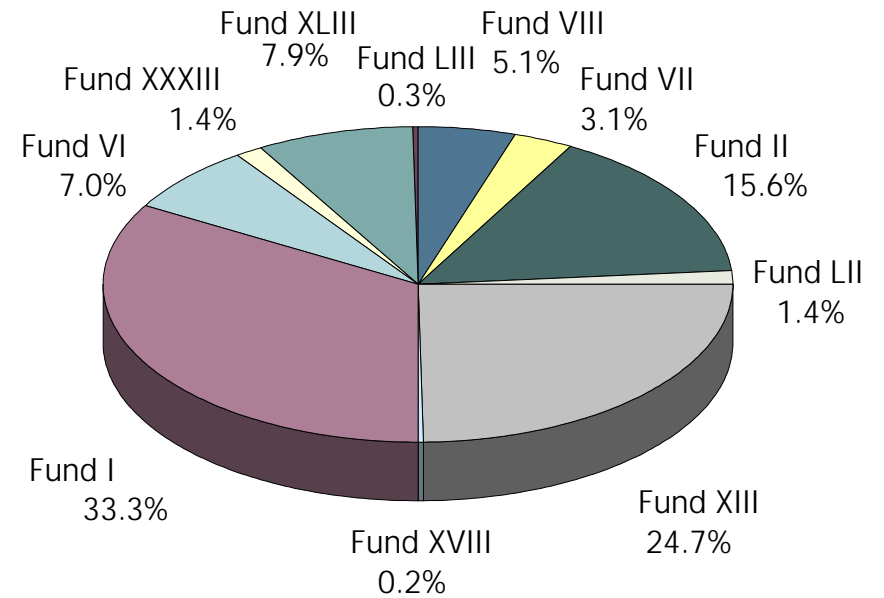
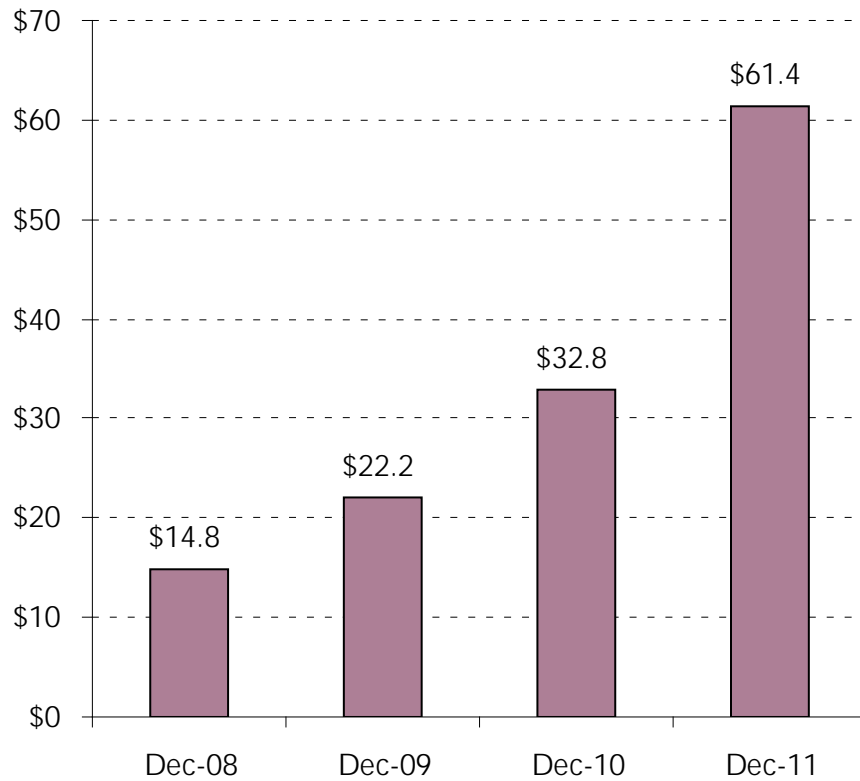
	Aggregate Fixed Income 12/31/11	Barclays Universal 12/31/11	Aggregate Fixed Income 9/30/11
Market Allocation (%):			
United States	86	86	88
Foreign (developed markets)	6	12	4
Foreign (emerging markets)	8	3	7
Currency Allocation (%):			
Non-U.S. Dollar Exposure	5	0	5
Sector Allocation (%):			
U.S. Treasury-Nominal	9	31	8
U.S. Treasury-TIPS	18	0	20
U.S. Agency	4	8	4
Mortgage Backed	11	28	13
Corporate	28	26	27
Bank Loans	9	0	9
Local & Provincial Government	3	1	3
Sovereign & Supranational	9	4	9
Commercial Mortgage Backed	4	2	3
Asset Backed	1	0	1
Cash Equivalent	3	0	3
Other	0	0	1



Real Estate Assets As of December 31, 2011

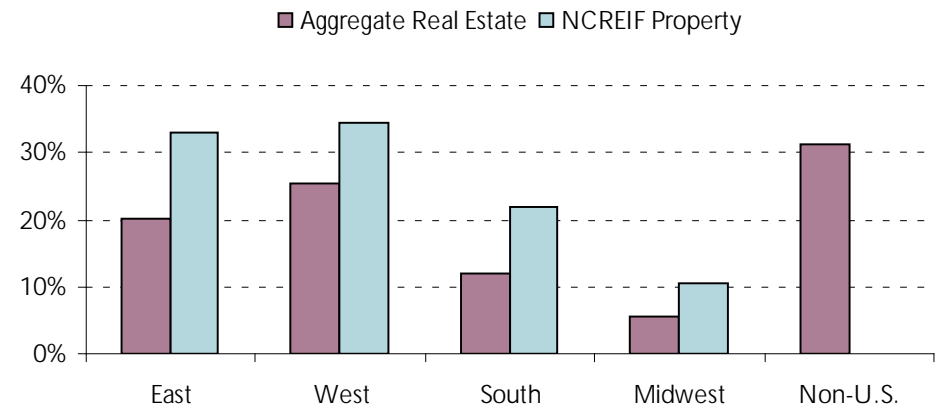
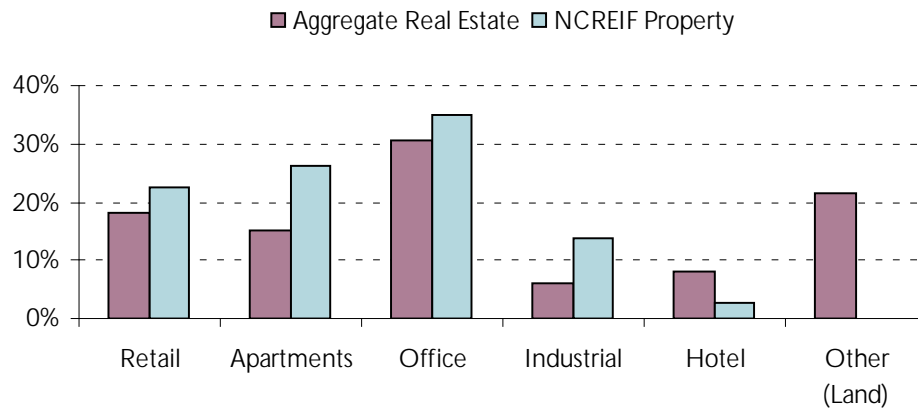
Client Pension Fund

Real Estate Assets as of 12/31/11



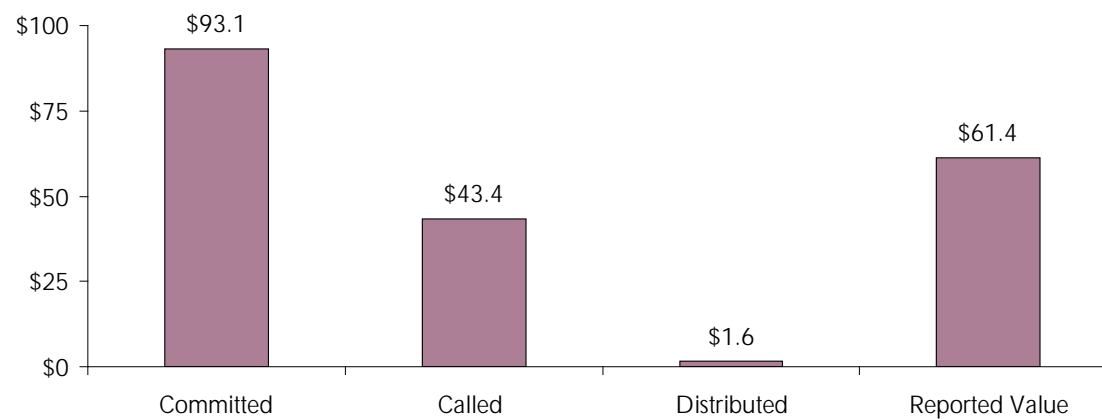
Client Pension Fund

Real Estate Assets Breakdown as of 12/31/11



Client Pension Fund

Real Estate Assets Characteristics as of 12/31/11



Number of Funds:	10
Commitments:	\$93.1
Capital Called:	\$43.4
Distributions:	\$1.6
Reported Value:	\$61.4

Client Pension Fund

Real Estate Assets Portfolio Listing as of 12/31/11

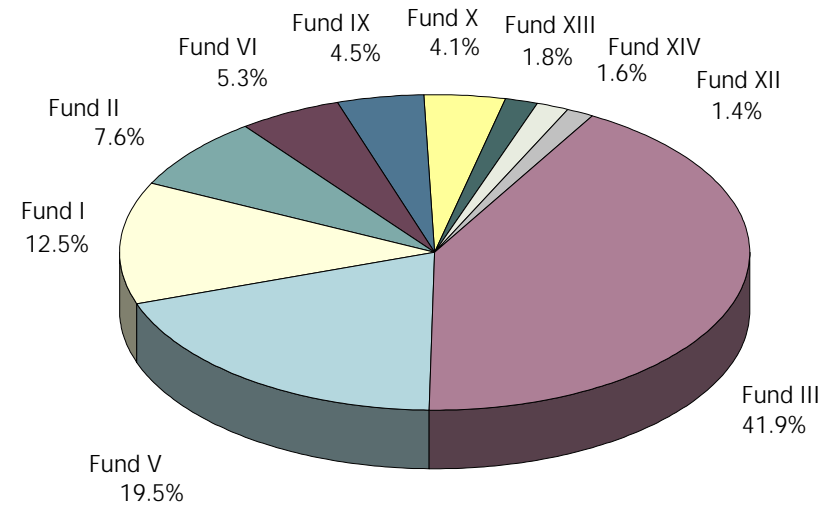
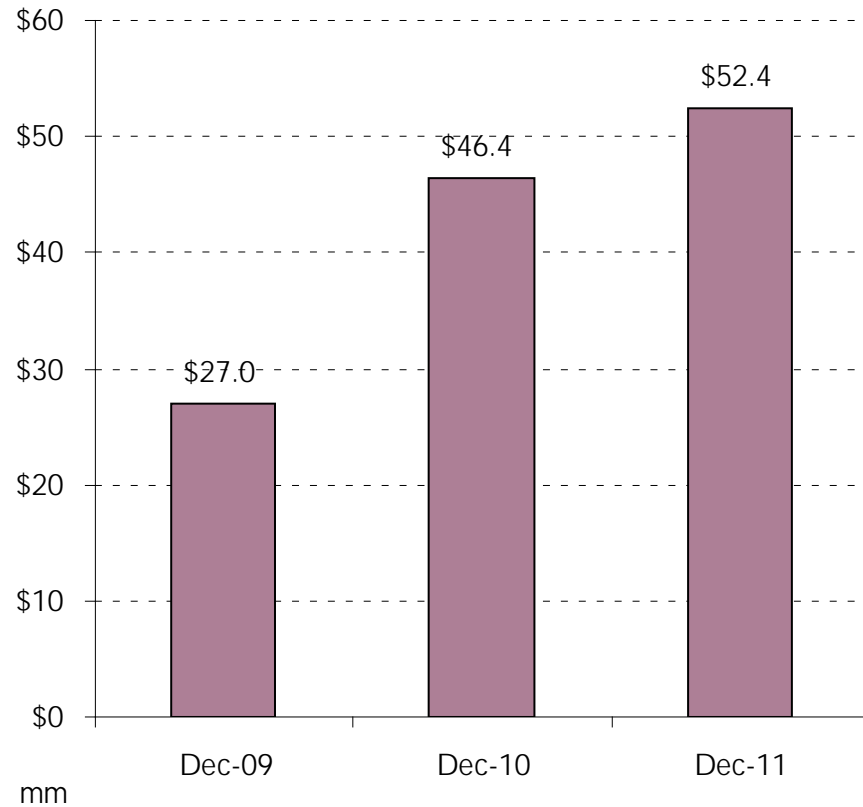
	Market	Strategy	Reported Value 12/31/11 (\$ mm)	% of Asset Class
Real Estate Assets			61.4	100
Real Estate Fund I	Public	Public REITS	20.4	33
Real Estate Fund XIII	Private	Diversified Core	15.2	25
Real Estate Fund II	Private	Opportunistic	9.6	16
Real Estate Fund XLIII	Private	Debt	4.9	8
Real Estate Fund VI	Private	Opportunistic	4.3	7
Real Estate Fund VIII	Private	Opportunistic	3.1	5
Real Estate Fund VII	Private	Int'l - Opportunistic	1.9	3
Real Estate Fund XXXIII	Private	Opportunistic	0.9	1
Real Estate Fund LII	Private	Value-Added	0.8	1
Real Estate Fund LIII	Private	Opportunistic	0.2	< 1
Real Estate Fund XVIII	Private	Value-Added	0.1	< 1



Natural Resources Assets As of December 31, 2011

Client Pension Fund

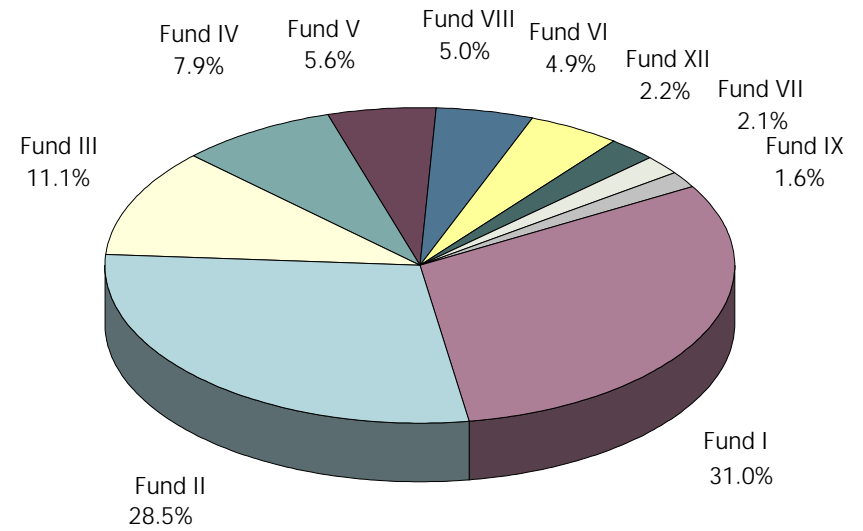
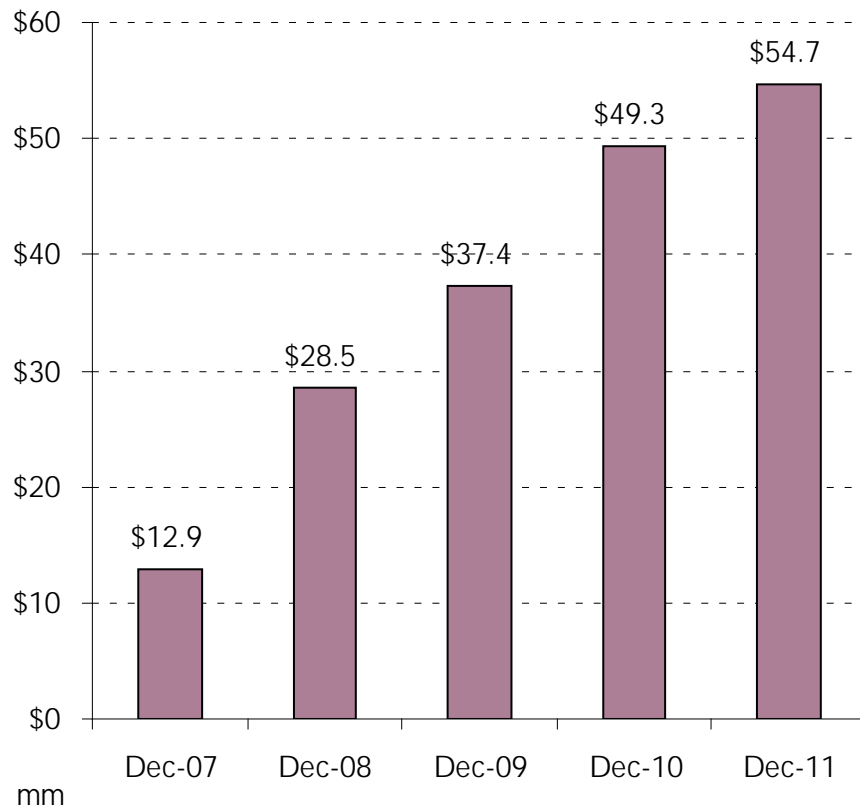
Natural Resources Assets as of 12/31/11



Infrastructure Assets As of December 31, 2011

Client Pension Fund

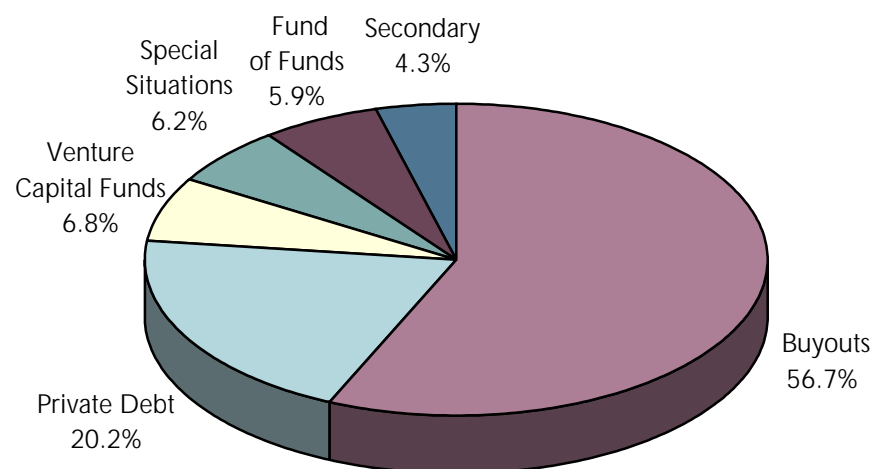
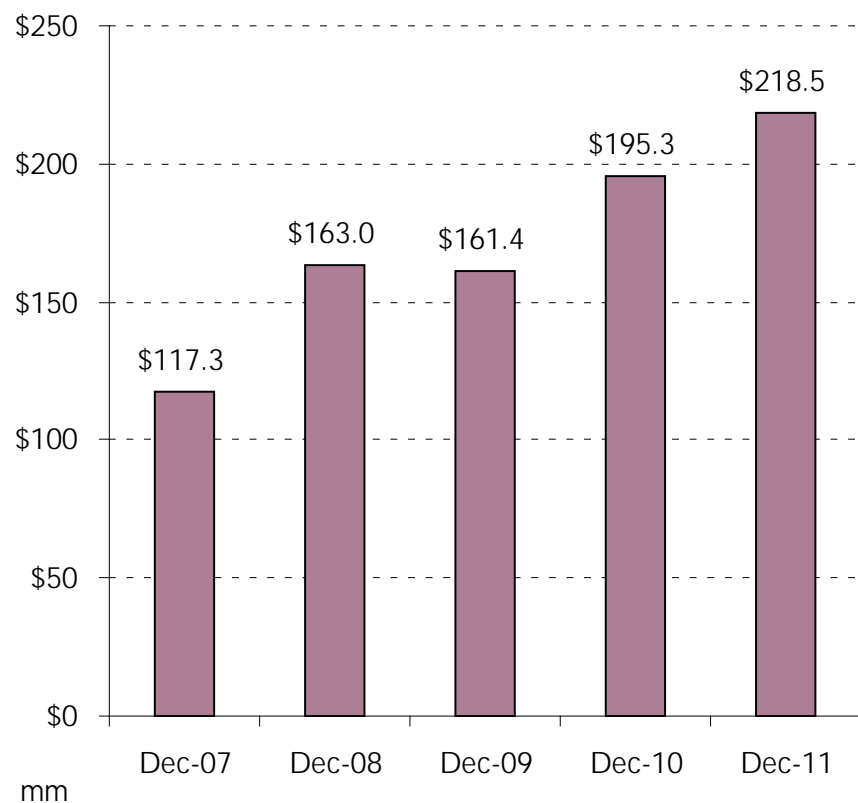
Infrastructure Assets as of 12/31/11



Private Equity Assets As of December 31, 2011

Client Pension Fund

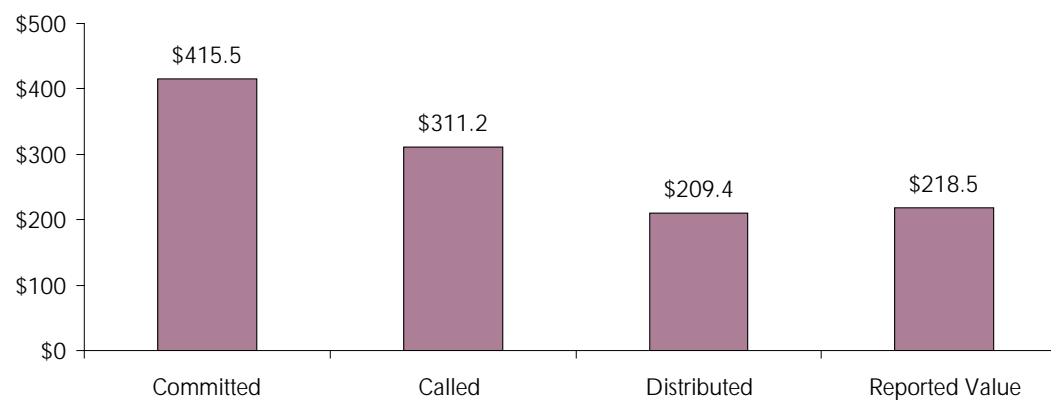
Private Equity Assets as of 12/31/11



Fair values for private markets assets are based on reported values of 9/30/11, adjusted for cash flows through 12/31/11.
Unless otherwise denoted, all values have been converted into US dollars using 12/31/11 exchange rates.

Client Pension Fund

Private Equity Assets Financial Summary as of 12/31/11



Financial Summary: (Reported value as of 9/30/2011, adjusted for cash flows through 12/31/2011)

Program to Date

Allocation Target:	10%
Number of Funds:	65
Commitments:	\$415.5
Capital Called:	\$311.2
Distributions:	\$209.4
Reported Value:	\$218.5

Client Pension Fund

Private Equity Assets Partnerships by Vintage as of 12/31/11

Partnership	Type	Focus	Vintage Year
Buyout Fund I	Buyout	Small Market	yyyy
Buyout Fund II	Buyout	Middle Market Buyout	yyyy
Fund of Funds I	Fund of Funds	European Buyout	yyyy
Secondary Fund I	Secondary Market	Diversified Buyout	yyyy
Private Debt Fund I	Mezzanine Debt	Middle Market Buyout	yyyy
Buyout Fund III	Buyout	Middle Market Buyout	yyyy
Buyout Fund IV	Buyout	Middle Market Buyout	yyyy
Special Situations Fund I	Special Situations	Royalties	yyyy
Buyout Fund V	Buyout	Middle Market Buyout	yyyy
Buyout Fund VI	Buyout	Middle Market Buyout	yyyy
Secondary Fund II	Secondary Market	Diversified Private Equity	yyyy
Buyout Fund VII	Buyout	Middle Market Buyout	yyyy
Elevation Partners	Special Situations	Media & Communication	yyyy
Buyout Fund VIII	Buyout	Middle Market Buyout	yyyy
Private Debt Fund II	Mezzanine Debt	Middle Market Buyout	yyyy
Buyout Fund XX	Buyout	Small Market Buyout	yyyy
Private Debt Fund III	Private Debt	Distressed	yyyy
Private Debt Fund IV	Mezzanine Debt	Middle Market Buyout	yyyy
Buyout Fund XI	Buyout	Middle Market Buyout	yyyy



Client Pension Fund

Private Equity Assets Partnerships by Vintage as of 12/31/11

Partnership	Type	Focus	Vintage Year
Buyout Fund XII	Buyout	Large Market	yyyy
Venture Capital Fund I	Venture Capital	Early Stage	yyyy
Buyout Fund XIII	European Buyout	Middle Market European Buyout	yyyy
Buyout Fund X	Mega Buyout	Mega European Buyout	yyyy
Buyout Fund XV	Buyout	Middle Market Buyout	yyyy
Special Situations Fund V	Special Situations	Turnaround	yyyy
Private Debt Fund V	Private Debt	Mezzanine	yyyy
Buyout Fund XVI	Buyout	Mega Market Buyout	yyyy
Venture Capital Fund II	Venture Capital	Early Stage	yyyy
Buyout Fund XVII	Emerging Markets	Middle Market Buyout	yyyy
Buyout Fund XVIII	Buyout	Middle Market Buyout	yyyy
Venture Capital Fund III	Venture Capital	Early Stage	yyyy
Buyout Fund XIV	Emerging Markets	Middle Market Buyout	yyyy
Buyout Fund XIX	Buyout	Large Market Buyout	yyyy
Private Debt Fund VI	Private Debt	Distressed	yyyy
Special Situations Fund VI	Special Situations	Healthcare	yyyy
Buyout Fund XX	Buyout	Middle Market Buyout	yyyy
Buyout Fund XXI	Buyout	Small Market Buyout	yyyy
Buyout Fund XXII	Buyout	Middle Market Buyout	yyyy
Private Debt Fund VII	Private Debt	Distressed	yyyy



Client Pension Fund

Private Equity Assets Partnerships by Vintage as of 12/31/11

Partnership	Type	Focus	Vintage Year
Buyout Fund XXIII	Buyout	Middle Market Buyout	yyyy
Buyout Fund XXIV	Buyout	Middle Market Buyout	yyyy
Buyout Fund XXVII	Buyout	Middle Market Buyout	yyyy
Venture Capital Fund V	Venture Capital	Later Stage	yyyy
Special Situations Fund V	Special Situations	Turnaround	yyyy
Buyout Fund XXV	Buyout	Large Market	yyyy
Buyout Fund XXVI	Buyout	Large Market	yyyy
Buyout Fund XXXVIII	Buyout	Middle Market	yyyy
Buyout Fund XXIX	Buyout	Middle Market Buyout	yyyy
Venture Capital Fund XIX	Venture Capital	Balanced Stage	yyyy
Venture Capital Fund IX	Venture Capital	Balanced Stage	yyyy
Buyout Fund XXXVIII	Buyout	Middle Market	yyyy
Private Debt Fund VIII	Private Debt	Credit Opportunities	yyyy
Private Debt Fund VI	Private Debt	Credit Opportunities	yyyy
Buyout Fund XXXXV	Buyout	Small Market Buyout	yyyy
Venture Capital Fund VIII	Venture Capital	Early Stage	yyyy
Buyout Fund XXXVII	Buyout	Middle Market Buyout	yyyy
Private Debt Fund XIX	Private Debt	Middle Market	yyyy
Buyout Fund XXXXII	Buyout	Middle Market Buyout	yyyy
Venture Capital Fund XXII	Venture Capital	Early Stage	yyyy



Client Pension Fund

Private Equity Assets Partnerships by Vintage as of 12/31/11

Partnership	Type	Focus	Vintage Year
Buyout Fund XXXXIII	Buyout	Middle Market Buyout	2011
Buyout Fund XXXXIV	Buyout	Middle Market Buyout	2011
Buyout Fund XXXXI	Buyout	Middle Market Buyout	2011
Buyout Fund IV	Buyout	Middle Market Buyout	2011
Buyout Fund XXXX	Buyout	Large Market	2012



Portfolio Reviews
As of December 31, 2011

Domestic Equity Portfolio Reviews As of December 31, 2011

Client Pension Fund

Mandate: Domestic Equities
Active/Passive: Passive
Market Value: \$99.4 million
Portfolio Manager: Julie Lind
Location: Boston, Massachusetts
Inception Date: 8/1/2011
Account Type: Commingled Fund

	Value	Core	Growth
Large			
Medium			
Small			

Fee Schedule:
0.055% on first \$100 mm; 0.03% thereafter

Liquidity Constraints:
Monthly

Strategy:

Based on its own proprietary model, Meketa Investment Group has established specific, defined criteria governing the stocks that are included in the QSI Index. The QSI Index is designed to be approximately market capitalization- and sector-neutral relative to the Russell 3000 Index at the time of reconstitution, and all stocks within the QSI Index are members of the Russell 3000 Index. The QSI Index is maintained by Meketa Investment Group and reconstituted on February 1 and August 1 each year.

Performance (%):	4Q11	YTD	Since 8/1/11
RhumbLine QSI Index	12.1	NA	1.4
QSI Index	12.3	6.1	1.6
Russell 3000	12.1	1.0	-2.8
Peer Large Cap Core	12.0	1.3	-2.5
Peer Ranking (percentile)	47	NA	7

RhumbLine QSI Index Portfolio Detail as of 12/31/11

	12/31/11		9/30/11	
	RhumbLine QSI Index	QSI Index	RhumbLine QSI Index	QSI Index
Capitalization Structure:				
Weighted Average Market Cap. (US\$ billion)	64.6	64.5	57.3	57.2
Median Market Cap. (US\$ billion)	4.8	4.8	4.5	4.5
Large (% over US\$10 billion)	72	72	68	68
Medium (% US\$2 billion to US\$10 billion)	19	19	23	23
Small (% under US\$2 billion)	8	8	9	9
Fundamental Structure:				
Price-Earnings Ratio	16	16	14	14
Price-Book Value Ratio	3.5	3.5	3.2	3.2
Dividend Yield (%)	2.6	2.5	2.8	2.8
Historical Earnings Growth Rate (%)	9	9	9	9
Projected Earnings Growth Rate (%)	10	10	11	11
Sector Allocation (%):				
Information Technology	18	18	18	18
Financials	16	16	16	16
Consumer Discretionary	13	13	12	12
Industrials	11	11	11	11
Energy	11	11	11	11
Health Care	10	10	11	11
Consumer Staples	10	10	10	10
Materials	5	5	5	5
Utilities	3	3	3	3
Telecom	3	3	3	3
Diversification:				
Number of Holdings	204	204	206	206
% in 5 largest holdings	12	12	12	12
% in 10 largest holdings	20	20	20	20
Largest Ten Holdings:				
		Industry		
ExxonMobil	3.6	Energy		
Microsoft	2.3	Software & Services		
Chevron	2.2	Energy		
IBM	2.1	Software & Services		
AT&T	1.8	Telecommunication Services		
Johnson & Johnson	1.7	Pharmaceuticals & Biotech		
Wal-Mart Stores	1.7	Food & Staples Retailing		
Paychex	1.7	Software & Services		
Chubb	1.7	Insurance		
Automatic Data Processing	1.6	Software & Services		



Client Pension Fund

Mandate: Domestic Equities
Active/Passive: Passive
Market Value: \$52.8 million
Portfolio Manager: Team
Location: Boston, Massachusetts
Inception Date: 5/1/2011
Account Type: Commingled Fund

	Value	Core	Growth
Large			
Medium			
Small			

Fee Schedule:
 0.05% on first \$50 mm; 0.04% on next \$50 mm; 0.03% thereafter

Liquidity Constraints:
 Daily

Strategy:
 The SSgA Russell 1000 Index strategy seeks to replicate the returns of the Russell 1000 index. The strategy employs a "full replication" methodology, holding each of the stocks that comprise the index with the same weight as the index. Portfolio trading occurs only when there are changes in the composition of the index or to reinvest cash distributed from securities in the portfolio.

Performance (%):	4Q11	YTD	Since 5/1/11
SSgA Russell 1000 Index-NL	11.8	NA	-7.7
Russell 1000	11.8	1.5	-7.3

SSgA Russell 1000 Index-NL Portfolio Detail as of 12/31/11

	12/31/11		9/30/11	
	SSgA Russell 1000 Index	Russell 1000	SSgA Russell 1000 Index	Russell 1000
Capitalization Structure:				
Weighted Average Market Cap. (US\$ billion)	86.4	86.3	77.4	77.4
Median Market Cap. (US\$ billion)	5.0	5.0	4.5	4.5
Large (% over US\$10 billion)	79	79	78	78
Medium (% US\$2 billion to US\$10 billion)	20	20	21	21
Small (% under US\$2 billion)	1	1	2	2
Fundamental Structure:				
Price-Earnings Ratio	17	17	16	16
Price-Book Value Ratio	3.3	3.3	3.1	3.0
Dividend Yield (%)	2.0	1.8	2.0	2.0
Historical Earnings Growth Rate (%)	8	8	8	8
Projected Earnings Growth Rate (%)	11	11	11	11
Sector Allocation (%):				
Information Technology	18	18	19	19
Financials	14	14	14	14
Health Care	12	12	12	12
Energy	12	12	11	11
Consumer Discretionary	11	11	11	12
Industrials	11	11	11	11
Consumer Staples	10	10	11	11
Materials	4	4	4	4
Utilities	4	4	4	4
Telecom	3	3	3	3
Diversification:				
Number of Holdings	978	980	981	979
% in 5 largest holdings	11	11	11	11
% in 10 largest holdings	18	18	18	18
Largest Ten Holdings:				
		Industry		
ExxonMobil	3.2	Energy		
Apple	2.9	Technology Hardware		
IBM	1.7	Software & Services		
Chevron	1.7	Energy		
Microsoft	1.5	Software & Services		
General Electric	1.5	Capital Goods		
Procter & Gamble	1.4	Household/Personal Products		
Johnson & Johnson	1.4	Pharmaceuticals & Biotech		
AT&T	1.4	Telecommunication Services		
Pfizer	1.3	Pharmaceuticals & Biotech		



Client Pension Fund

Jennison Large Cap Growth Equity Portfolio Detail as of 12/31/11

Mandate: Domestic Equities
Active/Passive: Active
Market Value: \$50.8 million
Portfolio Manager: Blair Boyer
Location: New York, New York
Inception Date: 1/1/1996
Account Type: Separately Managed

	Value	Core	Growth
Large			
Medium			
Small			

Fee Schedule:

0.75% on first \$10 mm; 0.50% on next \$30 mm; 0.35% on next \$25 mm; 0.25% on next \$335 mm; 0.22% on next \$600 mm; 0.20% thereafter

Liquidity Constraints:

Daily

Strategy:

Jennison Associates manages a large capitalization growth portfolio of 55 to 70 stocks. Jennison focuses on reasonably-priced growth stocks that possess sustainable attractive earnings growth.

Guidelines:

Benchmark = Russell 1000 Growth; Max. position < 5%; Max. % in Int'l securities = 15%; Max. % in convertible securities = 10%; Max. % in REITs = 10%

Performance (%):	4Q11	1 YR	3 YR	5 YR	Since 1/1/96
Jennison Large Cap Growth Equity	7.2	1.1	17.6	2.7	7.1
Russell 1000 Growth	10.6	2.6	18.0	2.5	5.5
Peer Large Cap Growth	10.3	-0.1	16.3	1.9	6.9
Peer Ranking (percentile)	95	35	34	33	44

Risk: (sixty months)	Standard Deviation	Beta	Sharpe Measure	Info. Ratio	Correlation to Index
Jennison Large Cap Growth Equity	19.4%	0.95	0.07	0.06	0.98
Russell 1000 Growth	20.0	1.00	0.05	NA	1.00

	12/31/11		9/30/11	
	Jennison	Russell 1000 Growth	Jennison	Russell 1000 Growth
Capitalization Structure:				
Weighted Average Market Cap. (US\$ billion)	67.2	96.7	64.2	88.3
Median Market Cap. (US\$ billion)	23.4	5.7	21.3	5.0
Large (% over US\$10 billion)	90	80	88	77
Medium (% US\$2 billion to US\$10 billion)	10	20	11	22
Small (% under US\$2 billion)	0	1	0	1
Fundamental Structure:				
Price-Earnings Ratio	27	19	28	19
Price-Book Value Ratio	5.3	4.7	5.2	4.4
Dividend Yield (%)	0.8	1.4	0.7	1.6
Historical Earnings Growth Rate (%)	20	15	21	15
Projected Earnings Growth Rate (%)	16	13	17	13
Sector Allocation (%):				
Consumer Discretionary	23	14	24	14
Information Technology	33	28	33	29
Health Care	15	11	13	11
Financials	6	4	4	4
Utilities	0	0	0	0
Telecom	0	1	2	1
Materials	3	5	3	5
Energy	6	11	5	10
Consumer Staples	8	13	8	13
Industrials	7	13	7	12
Diversification:				
Number of Holdings	73	588	72	587
% in 5 largest holdings	17	20	19	20
% in 10 largest holdings	30	28	30	29
Largest Ten Holdings:				
		Industry		
Apple	5.0	Technology Hardware		
Amazon.Com	3.7	Retailing		
Google	3.1	Software & Services		
MasterCard	3.0	Software & Services		
Schlumberger	2.6	Energy		
Precision Castparts	2.6	Capital Goods		
Starbucks	2.5	Consumer Services		
Nike	2.5	Consumer Durable & Apparel		
Vmware Inc -CI A	2.4	Software & Services		
IBM	2.3	Software & Services		



Client Pension Fund

Mandate: Domestic Equities

Active/Passive: Active

Market Value: \$49.9 million

Portfolio Manager: Team

Location: San Francisco, California

Inception Date: 9/1/2000

Account Type: Separately Managed

	Value	Core	Growth
Large			
Medium			
Small			

Fee Schedule:

0.60% on first \$10 mm; 0.40% on next \$15 mm; 0.30% on next \$25 mm; 0.25% on next \$50 mm; 0.20% thereafter

Liquidity Constraints:

Daily

Strategy:

Dodge & Cox invests in companies that appear to be temporarily undervalued by the stock market, but have a favorable outlook for long-term growth. The strategy focuses on the underlying financial conditions and prospects of individual companies, which includes future earnings, cash flow, and dividends. Various other factors including financial strength, economic condition, competitive advantage, quality of the business franchise, and management quality are weighed against valuation in selecting individual securities.

Guidelines:

Benchmark = Russell 1000 Value; Max. position < 5%; Max. % in Int'l securities = 20%; Max. % in convertible securities = 10%; Max. % in REITs = 10%

Performance (%):	4Q11	1 YR	3 YR	5 YR	Since 9/1/00
Dodge & Cox Equity	11.2	-3.6	13.6	-3.8	5.7
Russell 1000 Value	13.1	0.4	11.5	-2.6	3.3
Peer Large Cap Value	13.0	0.8	13.0	-1.0	4.7
Peer Ranking (percentile)	86	84	38	97	18

Risk: (sixty months)	Standard Deviation	Beta	Sharpe Measure ¹	Info. Ratio	Correlation to Index
Dodge & Cox Equity	22.3%	1.08	Neg.	Neg.	0.98
Russell 1000 Value	20.2	1.00	Neg.	NA	1.00

Dodge & Cox Equity Portfolio Detail as of 12/31/11

	12/31/11 Dodge & Cox	Russell 1000 Value	9/30/11 Dodge & Cox	Russell 1000 Value
Capitalization Structure:				
Weighted Average Market Cap. (US\$ billion)	68.5	76.0	61.0	66.2
Median Market Cap. (US\$ billion)	18.7	4.6	18.9	4.1
Large (% over US\$10 billion)	86	79	84	78
Medium (% US\$2 billion to US\$10 billion)	13	19	15	20
Small (% under US\$2 billion)	1	1	1	2

Fundamental Structure:				
Price-Earnings Ratio	15	15	14	14
Price-Book Value Ratio	2.3	1.9	1.9	1.7
Dividend Yield (%)	2.0	2.2	2.2	2.5
Historical Earnings Growth Rate (%)	0	1	1	2
Projected Earnings Growth Rate (%)	8	9	10	9

Sector Allocation (%):				
Information Technology	20	9	20	9
Health Care	22	13	22	13
Consumer Discretionary	18	9	17	9
Materials	4	3	3	3
Industrials	8	9	7	9
Telecom	3	5	3	5
Energy	8	12	8	12
Financials	17	24	19	25
Consumer Staples	1	8	1	8
Utilities	0	8	0	8

Diversification:				
Number of Holdings	74	656	75	653
% in 5 largest holdings	19	14	18	14
% in 10 largest holdings	35	24	33	24

Largest Ten Holdings:		Industry
Merck	4.0	Pharmaceuticals & Biotech
Comcast	3.9	Media
Wells Fargo	3.8	Banks
Hewlett-Packard	3.6	Technology Hardware
General Electric	3.6	Capital Goods
Amgen	3.5	Pharmaceuticals & Biotech
Pfizer	3.3	Pharmaceuticals & Biotech
Capital One Financial	3.2	Diversified Financials
Time Warner	3.1	Media
Sanofi	2.8	Pharmaceuticals & Biotech

¹ A negative Sharpe ratio indicates that the portfolio underperformed the risk-free rate during the sample period.



Client Pension Fund

Mandate: Domestic Equities
Active/Passive: Active
Market Value: \$44.1 million
Portfolio Manager: Tony Rosenthal, CFA
Location: New York, New York
Inception Date: 4/1/2006
Account Type: Separately Managed

	Value	Core	Growth
Large			
Medium			
Small			

Fee Schedule:
0.70% on first \$100 mm; 0.60% thereafter

Liquidity Constraints:
Monthly

Strategy:
TimesSquare manages a diversified portfolio of midcap growth stocks that places emphasis on the assessment of management quality, and an in-depth understanding of superior business models. The initial universe consists of approximately 1,000 companies with market capitalizations between \$2.5 billion and \$15 billion at time of purchase that have demonstrated the ability to grow earnings and sales at least 15% per year. Of these, approximately 250 are followed closely with 65 to 75 stocks to be included in the portfolio.

Guidelines:
Benchmark = Russell Mid Cap Growth; Max. position < 7%; Max. % in Int'l securities = 10%; Max. % in convertible securities = 10%; Max. % in REITs = 10%

Performance (%):	4Q11	1 YR	3 YR	5 YR	Since 4/1/06
TimesSquare MidCap Growth	13.3	-0.7	18.0	4.1	4.8
Russell MidCap Growth	11.2	-1.7	22.1	2.4	2.6
Peer MidCap Growth	11.6	-1.8	20.6	3.6	3.4
Peer Ranking (percentile)	24	43	76	40	28

Risk: (sixty months)	Standard Deviation	Beta	Sharpe Measure	Info. Ratio	Correlation to Index
TimesSquare MidCap Growth	20.8%	0.84	0.13	0.32	0.98
Russell MidCap Growth	24.2	1.00	0.04	NA	1.00

TimesSquare MidCap Growth Portfolio Detail as of 12/31/11

	12/31/11		9/30/11	
		Russell MidCap Growth		Russell MidCap Growth
Capitalization Structure:	TimesSquare		TimesSquare	
Weighted Average Market Cap. (US\$ billion)	7.4	7.9	6.8	7.0
Median Market Cap. (US\$ billion)	5.7	4.2	4.8	4.0
Large (% over US\$10 billion)	26	29	18	22
Medium (% US\$2 billion to US\$10 billion)	70	68	78	75
Small (% under US\$2 billion)	3	2	4	3
Fundamental Structure:				
Price-Earnings Ratio	22	24	21	23
Price-Book Value Ratio	4.4	4.5	4.1	4.1
Dividend Yield (%)	0.8	1.0	0.9	1.1
Historical Earnings Growth Rate (%)	13	12	12	12
Projected Earnings Growth Rate (%)	12	15	8	13
Sector Allocation (%):				
Information Technology	25	18	26	19
Financials	11	7	9	7
Industrials	17	15	18	14
Telecom	3	2	5	2
Utilities	0	0	0	0
Energy	9	10	8	9
Consumer Staples	5	6	5	7
Health Care	11	13	11	14
Materials	4	9	4	8
Consumer Discretionary	15	20	15	20
Diversification:				
Number of Holdings	76	466	78	465
% in 5 largest holdings	17	5	18	4
% in 10 largest holdings	29	8	30	7
Largest Ten Holdings:		Industry		
Davita	5.1	Health Equipment & Services		
Virgin Media	3.3	Media		
SBA Communications	3.2	Telecommunication Services		
Renaissancere Holdings	3.0	Insurance		
Alliance Data Systems	2.9	Software & Services		
Amdocs	2.4	Software & Services		
Discovery Communications	2.4	Media		
Ecolab	2.2	Materials		
Kansas City Southern	2.2	Transportation		
Neustar	2.0	Software & Services		



Client Pension Fund

Mandate: Domestic Equities
Active/Passive: Active
Market Value: \$42.1 million
Portfolio Manager: David J. Wallack
Location: Baltimore, Maryland
Inception Date: 2/1/1999
Account Type: Separately Managed

	Value	Core	Growth
Large			
Medium			
Small			

Fee Schedule:
0.50% on all assets

Liquidity Constraints:
Daily

Strategy:

T. Rowe Price seeks undervalued mid-cap companies possessing a catalyst that will eventually drive the stock to full valuation. Most have established brands and good franchises that have withstood the test of time, but have suffered challenges. These challenges can include a poorly integrated acquisition, difficulties in product manufacturing or distribution, a downturn in a major end market, or an increase in industry capacity that drives down prices. T. Rowe Price follows a clearly defined investment process emphasizing fundamental research and active, bottom-up stock selection.

Guidelines:

Benchmark = Russell MidCap Value; Max. position < 5%; Max. % in Int'l securities = 10%; Max. % in convertible securities = 10%; Max. % in REITs = 10%

Performance (%):	4Q11	1 YR	3 YR	5 YR	Since 2/1/99
T. Rowe Price MidCap Value	9.8	-4.5	19.4	1.9	10.6
Russell MidCap Value	13.4	-1.4	18.2	0.0	7.7
Peer MidCap Value	13.6	-2.8	17.5	2.0	9.0
Peer Ranking (percentile)	94	73	27	53	12

Risk: (sixty months)	Standard Deviation	Beta	Sharpe Measure ¹	Info. Ratio	Correlation to Index
T. Rowe Price MidCap Value	23.2%	0.94	0.02	0.46	0.99
Russell MidCap Value	24.1	1.00	Neg.	NA	1.00

T. Rowe Price MidCap Value Portfolio Detail as of 12/31/11

	12/31/11		9/30/11	
Capitalization Structure:	T.Rowe Price	Russell MidCap Value	T.Rowe Price	Russell MidCap Value
Weighted Average Market Cap. (US\$ billion)	7.4	7.8	6.8	7.0
Median Market Cap. (US\$ billion)	4.9	3.7	4.5	3.3
Large (% over US\$10 billion)	27	30	23	26
Medium (% US\$2 billion to US\$10 billion)	57	65	58	67
Small (% under US\$2 billion)	16	5	18	7

Fundamental Structure:				
Price-Earnings Ratio	20	19	16	18
Price-Book Value Ratio	2.4	1.7	2.1	1.5
Dividend Yield (%)	2.1	2.2	2.1	2.5
Historical Earnings Growth Rate (%)	-1	1	0	1
Projected Earnings Growth Rate (%)	11	9	11	9

Sector Allocation (%):				
Consumer Discretionary	16	11	16	11
Consumer Staples	10	7	10	7
Energy	8	7	8	6
Materials	6	5	5	4
Telecom	1	1	1	1
Industrials	11	10	9	10
Health Care	5	6	7	7
Information Technology	7	8	8	8
Utilities	10	15	12	15
Financials	25	31	25	31

Diversification:				
Number of Holdings	135	528	137	525
% in 5 largest holdings	10	5	11	5
% in 10 largest holdings	18	9	19	9

Largest Ten Holdings:		Industry
Northern Trust	2.2	Diversified Financials
Nexen	2.1	Energy
Firstenergy	2.0	Utilities
Southwest Airlines	1.8	Transportation
Weyerhaeuser	1.8	Real Estate
Kroger	1.7	Food & Staples Retailing
CIT Group	1.7	Banks
Marsh & McLennan	1.7	Insurance
White Mtns Ins Group	1.7	Insurance
Textron	1.6	Capital Goods

¹ A negative Sharpe ratio indicates that the portfolio underperformed the risk-free rate during the sample period.



Client Pension Fund

Mandate: Domestic Equities
Active/Passive: Active
Market Value: \$30.8 million
Portfolio Manager: David DuBard, CFA
Location: Boston, Massachusetts
Inception Date: 6/1/2006
Account Type: Commingled Fund

	Value	Core	Growth
Large			
Medium			
Small			

Fee Schedule:
 1.00% on all assets; plus 10% performance fee; plus 1% transaction charge

Liquidity Constraints:
 Monthly

Strategy:
 The Wellington Micro Cap strategy provides exposure to domestic common stocks with very small capitalization, usually less than \$125 million. Wellington generates approximately ninety percent of its own research to build the portfolio utilizing bottom-up stock selection. There are no guidelines regarding industry weights relative to the benchmark. Portfolio turnover is moderate.

Performance (%):	4Q11	1 YR	3 YR	5 YR	Since 6/1/06
Wellington Micro Cap	16.2	-3.2	30.2	4.8	5.8
Russell Microcap	13.8	-9.3	14.2	-3.8	-1.9

Risk: (sixty months)	Standard Deviation	Beta	Sharpe Measure ¹	Info. Ratio	Correlation to Index
Wellington Micro Cap	26.5%	0.88	0.13	0.77	0.92
Russell Microcap	25.5	1.00	Neg.	NA	1.00

Wellington Micro Cap Portfolio Detail as of 12/31/11

	12/31/11		9/30/11	
Capitalization Structure:	Wellington	Russell Microcap	Wellington	Russell Microcap
Weighted Average Market Cap. (US\$ million)	133.3	305.4	108.8	250.0
Median Market Cap. (US\$ million)	97.7	135.5	86.0	123.0
Large (% over US\$10 billion)	0	0	0	0
Medium (% US\$2 billion to US\$10 billion)	0	0	0	0
Small (% under US\$2 billion)	100	100	100	100

Fundamental Structure:				
Price-Earnings Ratio	17	25	16	22
Price-Book Value Ratio	1.8	2.4	1.5	2.1
Dividend Yield (%)	0.7	1.4	0.9	1.6
Historical Earnings Growth Rate (%)	1	3	3	3
Projected Earnings Growth Rate (%)	15	16	15	15

Sector Allocation (%):				
Information Technology	28	16	31	17
Materials	16	4	13	4
Energy	7	4	7	4
Telecom	2	1	0	1
Consumer Staples	1	2	2	2
Utilities	0	1	0	2
Industrials	12	14	13	14
Health Care	13	17	11	18
Consumer Discretionary	8	13	11	13
Financials	13	27	12	26

Diversification:				
Number of Holdings	83	1,566	79	1,578
% in 5 largest holdings	16	2	14	2
% in 10 largest holdings	27	3	25	3

Largest Ten Holdings:		Industry
Arabian American Development	4.3	Materials
Aurcana	4.0	Materials
Eplus	2.6	Software & Services
Mitcham Industries	2.5	Energy
GP Strategies	2.4	Commercial & Professional Services
Anika Therapeutics	2.4	Health Equipment & Services
Mediware Information Systems	2.4	Health Equipment & Services
Nova Measuring Instruments	2.3	Technology Hardware
Silvercrest Mines	2.3	Materials
Computer Task Group	2.2	Software & Services

¹ A negative Sharpe ratio indicates that the portfolio underperformed the risk-free rate during the sample period.



Client Pension Fund

Standard Pacific Capital Offshore Fund, Ltd. Portfolio Detail as of 12/31/11

Mandate: Domestic Equities
Active/Passive: Active
Market Value: \$26.7 million
Portfolio Manager: Raj Venkatesan and Doug Dillard
Location: San Francisco, California
Inception Date: 7/1/2010
Account Type: Commingled Fund

Fee Schedule:
1.5% management fee and 20% performance fee, subject to a high water mark

Liquidity Constraints:
Quarterly with 45 days notice after initial one-year lock-up

Strategy:
Standard Pacific uses fundamental bottom-up stock selection (of both long and short investments), to seek to provide returns to investors. The fund will invest across the globe, though typically with a large portion invested in the U.S. The investment team seeks to provide added value by maintaining a two-way dialogue between staff and key industry contacts. Contacts include not only portfolio company contacts but those across industry, regulatory bodies, and geographies. The investment team utilizes their own research to find companies that may be misunderstood by the market at large.

Performance (%):	4Q11	1 YR	Since 7/1/10
Standard Pacific Capital Offshore Fund, Ltd.	-6.2	-4.5	5.1
HFRI Equity Hedge (Long/Short Equity)	2.2	-8.0	2.5



Client Pension Fund

NorthPointe Focused Small Cap Growth Equity Portfolio Detail as of 12/31/11

Mandate: Domestic Equities

Active/Passive: Active

Market Value: \$23.7 million

Portfolio Manager: Carl Wilk, CFP

Location: Troy, Michigan

Inception Date: 10/1/2008

Account Type: Separately Managed

	Value	Core	Growth
Large			
Medium			
Small			

Fee Schedule:
1.00% on first \$50 mm; 0.75% on next \$50 mm

Liquidity Constraints:
Monthly

Strategy:
The Northpointe Focused Small Cap Growth Equity portfolio invests primarily in the common stock of small capitalization companies that exhibit quality growth characteristics. The portfolio management team's investment philosophy is rooted in the belief that strong fundamental research, combined with quantitative risk control, is the key to stock selection.

Guidelines:
Benchmark = Russell 2000 Growth; Max. position < 10%; Max. % in Int'l securities = 20%; Max. % in convertible securities = 10%; Max. % in REITs = 10%

Performance (%):	4Q11	1 YR	3 YR	Since 10/1/08
NorthPointe Focused Small Cap Growth Equity	12.1	-20.4	17.7	4.1
Russell 2000 Growth	15.0	-2.9	19.0	6.4
Peer Small Cap Growth	14.6	-0.8	20.0	7.9
Peer Ranking (percentile)	79	99	76	90

Risk: (thirty-nine months)	Standard Deviation	Beta	Sharpe Measure	Info. Ratio	Correlation to Index
NorthPointe Focused SCG Equity	41.0%	1.23	0.09	Neg.	0.96
Russell 2000 Growth	31.4	1.00	0.20	NA	1.00

	12/31/11		9/30/11	
	NorthPointe Small Cap Growth	Russell 2000 Growth	NorthPointe Small Cap Growth	Russell 2000 Growth
Capitalization Structure:				
Weighted Average Market Cap. (US\$ million)	879.1	1,388.7	666.3	1,183.1
Median Market Cap. (US\$ million)	821.1	528.4	454.7	477.9
Large (% over US\$10 billion)	0	0	0	0
Medium (% US\$2 billion to US\$10 billion)	6	23	6	14
Small (% under US\$2 billion)	94	77	94	86

Fundamental Structure:				
Price-Earnings Ratio	30	29	18	28
Price-Book Value Ratio	2.8	4.0	2.6	3.7
Dividend Yield (%)	0.1	0.7	0.1	0.8
Historical Earnings Growth Rate (%)	13	11	9	11
Projected Earnings Growth Rate (%)	18	18	16	18

Sector Allocation (%):				
Energy	20	8	14	7
Information Technology	29	23	21	23
Health Care	23	20	27	21
Industrials	19	17	15	16
Materials	4	4	6	4
Utilities	0	0	0	0
Telecom	0	1	0	1
Consumer Staples	0	4	0	5
Financials	0	8	0	8
Consumer Discretionary	5	14	16	15

Diversification:				
Number of Holdings	22	1,162	21	1,141
% in 5 largest holdings	27	3	31	3
% in 10 largest holdings	51	5	57	5

Largest Ten Holdings:		Industry
Web.Com Group	6.2	Software & Services
World Fuel Services	5.5	Energy
Ultratech	5.4	Semiconductors
Merge Healthcare	5.0	Health Equipment & Services
Magnum Hunter Resources	5.0	Energy
Abraxas Petroleum Corp/Nv	4.9	Energy
Impax Laboratories	4.8	Pharmaceuticals & Biotech
Air Transport Services Group	4.8	Transportation
Quantum	4.8	Technology Hardware
Iconix Brand Group	4.8	Consumer Durable & Apparel



Client Pension Fund

Sparta Small Cap Growth Equity Portfolio Detail as of 12/31/11

Mandate: Domestic Equities
Active/Passive: Active
Market Value: \$16.9 million
Portfolio Manager: Ryan Carr, CFA
Location: Bellevue, WA
Inception Date: 10/1/2008
Account Type: Separately Managed

	Value	Core	Growth
Large			
Medium			
Small			

Fee Schedule:
 1.00% on first \$25 mm; 0.85% on next \$25 mm

Liquidity Constraints:
 Daily

Strategy:

Sparta's team uses a combination of fundamental and quantitative techniques to identify companies trading at a discount to their growth potential or historical valuations. The team focuses on what they consider to be each company's "enterprise value". They then consider that company's current market valuation relative to that value. For those companies trading at a discount to Sparta's estimated enterprise value, the team then seeks to uncover those firms with a near term catalyst that will bring the market valuation of the company closer in line with their estimated enterprise value.

Guidelines:

Benchmark = Russell 2000 Growth; Max. position < 10%; Max. % in Int'l securities = 15%; Max. % in convertible securities = 10%; Max. % in REITs = 10%

Performance (%):	4Q11	1 YR	3 YR	Since 10/1/08
Sparta Small Cap Growth Equity	10.0	-7.2	16.8	6.9
Russell 2000 Growth	15.0	-2.9	19.0	6.4
Peer Small Cap Growth	14.6	-0.8	20.0	7.9
Peer Ranking (percentile)	95	90	83	63

Risk: (thirty-nine months)	Standard Deviation	Beta	Sharpe Measure	Info. Ratio	Correlation to Index
Sparta Small Cap Growth Equity	30.5%	0.94	0.22	0.07	0.96
Russell 2000 Growth	31.4	1.00	0.20	NA	1.00

	12/31/11		9/30/11	
	Sparta Small Cap Growth Equity	Russell 2000 Growth	Sparta Small Cap Growth Equity	Russell 2000 Growth
Capitalization Structure:				
Weighted Average Market Cap. (US\$ million)	847.6	1,388.7	706.1	1,183.1
Median Market Cap. (US\$ million)	611.7	528.4	562.1	477.9
Large (% over US\$10 billion)	0	0	0	0
Medium (% US\$2 billion to US\$10 billion)	14	23	0	14
Small (% under US\$2 billion)	86	77	100	86

Fundamental Structure:				
Price-Earnings Ratio	29	29	20	28
Price-Book Value Ratio	2.3	4.0	1.9	3.7
Dividend Yield (%)	0.3	0.7	0.4	0.8
Historical Earnings Growth Rate (%)	-7	11	-4	11
Projected Earnings Growth Rate (%)	19	18	21	18

Sector Allocation (%):				
Information Technology	34	23	29	23
Energy	14	8	11	7
Materials	9	4	7	4
Utilities	0	0	0	0
Telecom	0	1	0	1
Health Care	19	20	23	21
Industrials	13	17	16	16
Consumer Staples	0	4	0	5
Financials	3	8	3	8
Consumer Discretionary	9	14	10	15

Diversification:				
Number of Holdings	29	1,162	27	1,141
% in 5 largest holdings	29	3	32	3
% in 10 largest holdings	52	5	55	5

Largest Ten Holdings:		Industry
Onyx Pharmaceuticals	6.1	Pharmaceuticals & Biotech
Emulex	5.9	Technology Hardware
Rubicon Technology	5.8	Semiconductors
Rex Energy	5.6	Energy
O2Micro International	5.6	Semiconductors
Silicon Image	5.4	Semiconductors
Dice Holdings	4.5	Software & Services
OM Group	4.5	Materials
Wet Seal	4.4	Retailing
Robbins & Myers	4.3	Capital Goods



Client Pension Fund

Wellington Emerging Companies Portfolio Detail as of 12/31/11

Mandate: Domestic Equities
Active/Passive: Active
Market Value: \$12.0 million
Portfolio Manager: Jamie Rome, CFA
Location: Boston, Massachusetts
Inception Date: 11/1/1996
Account Type: Commingled Fund

	Value	Core	Growth
Large			
Medium			
Small			

Fee Schedule:
 0.90% on all assets

Liquidity Constraints:
 Monthly

Strategy:

Wellington seeks to outperform the Russell 2000 Index by investing in very small U.S. companies. They focus on solid, growing companies with attractive valuations. Purchase and sale decisions at Wellington are based on fundamental analysis. The portfolio invests primarily in companies with market capitalizations under \$1 billion at the time of purchase.

Performance (%):	4Q11	1 YR	3 YR	5 YR	Since 11/1/96
Wellington Emerging Companies	13.4	-8.6	21.2	-0.6	10.5
Russell 2000 Value	16.0	-5.5	12.4	-1.9	8.5
Peer Small Cap Value	16.7	-2.6	17.5	1.9	10.2
Peer Ranking (percentile)	87	91	18	85	44

Risk: (sixty months)	Standard Deviation	Beta	Sharpe Measure ¹	Info. Ratio	Correlation to Index
Wellington Emerging Companies	27.1%	0.97	Neg.	0.12	0.92
Russell 2000 Value	25.5	1.00	Neg.	NA	1.00

	12/31/11 Wellington	Russell 2000 Value	9/30/11 Wellington	Russell 2000 Value
Capitalization Structure:				
Weighted Average Market Cap. (US\$ million)	702.8	1,074.4	623.0	922.5
Median Market Cap. (US\$ million)	395.7	406.2	347.8	345.9
Large (% over US\$10 billion)	0	0	0	0
Medium (% US\$2 billion to US\$10 billion)	4	12	3	7
Small (% under US\$2 billion)	96	88	97	93

Fundamental Structure:				
Price-Earnings Ratio	23	21	20	18
Price-Book Value Ratio	2.0	1.5	1.8	1.3
Dividend Yield (%)	1.5	2.2	1.4	2.5
Historical Earnings Growth Rate (%)	1	0	0	1
Projected Earnings Growth Rate (%)	14	11	13	11

Sector Allocation (%):				
Information Technology	20	11	21	11
Materials	11	5	10	5
Energy	9	5	7	5
Consumer Discretionary	14	12	15	11
Consumer Staples	5	3	5	3
Telecom	2	1	2	1
Industrials	16	15	16	15
Health Care	6	5	6	5
Utilities	2	7	2	8
Financials	16	37	15	36

Diversification:				
Number of Holdings	168	1,354	168	1,345
% in 5 largest holdings	6	2	5	2
% in 10 largest holdings	10	4	10	5

Largest Ten Holdings:		Industry
C&J Energy Services	1.2	Energy
H&E Equipment Services	1.2	Capital Goods
Restoque Com E Con	1.1	Consumer Durable & Apparel
Wabash National	1.1	Capital Goods
RDA Microelectronics Inc -Adr	1.0	Technology Hardware
American Vanguard	1.0	Materials
Kratos Defense & Security	1.0	Capital Goods
Unvl Stainless & Alloy Prods	1.0	Materials
Textainer Group Holdings	1.0	Diversified Financials
Seacube Container Leasing	0.9	Capital Goods

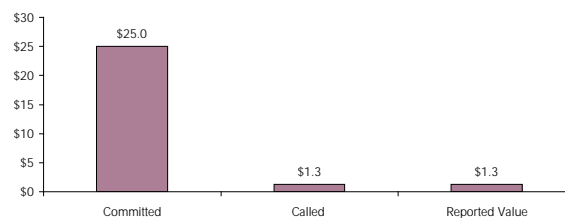
¹ A negative Sharpe ratio indicates that the portfolio underperformed the risk-free rate during the sample period.



Client Pension Fund

Hedge Fund I Portfolio Detail as of 12/31/11

Mandate: Hedge FoF
Active/Passive: Active
Market Value: \$1.3 million
Commitment: \$25 million
Portfolio Manager: Mr. A
Location: Tri-State Area
Inception Date: yyyy
Account Type: Ltd. Partnership



Fee Schedule:
1.25% Mgmt/ 10% Incentive/ 7.5% Hurdle

Liquidity Constraints:
Illiquid Investment

Strategy:

Hedge Fund I primarily offers hedge fund of fund products, however the firm launched the Fund in order to invest in direct, opportunistic investment offerings sourced through their current underlying hedge fund of fund manager roster. Fund I is invested in a combination of 15 to 25 direct investments and fund investments. The fund does not use leverage and is expected to focus on European credit, middle market debt, real estate debt, and activist equity deals.



International Equity Portfolio Reviews As of December 31, 2011

Client Pension Fund

Vontobel International Equity Portfolio Detail as of 12/31/11

Mandate: International Equities,
Developed Markets

Active/Passive: Active

Market Value: \$81.7 million

Portfolio Manager: Rajiv Jain

Location: New York, New York

Inception Date: 8/1/2009

Account Type: Separately Managed

Fee Schedule:

0.65% on all assets

Liquidity Constraints:

Daily

Strategy:

Vontobel, through bottom-up, fundamental analysis, seeks to outperform the MSCI EAFE Index of foreign stocks by identifying seemingly high quality international businesses with demonstrated operating profitability and apparently favorable long-term economic prospects, at seemingly attractive valuations. Vontobel examines historical data to identify companies with a defensible franchise, pricing power, stable operating margins, and other factors. Vontobel also seeks a "margin of safety" (price in excess of value) of at least 25% on any purchase. The result is a somewhat concentrated portfolio of 40-60 stocks with moderate turnover.

Guidelines:

Benchmark = MSCI EAFE; Max. position = greater of 5% or 2x benchmark weight; Max. % in one country = 40%; Max. % in convertible securities = 15%; Max. exposure to emerging markets < 35%.

Performance (%):	4Q11	1 YR	Since 8/1/09
Vontobel International Equity	6.9	1.4	11.8
MSCI EAFE	3.3	-12.1	2.4
Peer International Growth	6.2	-11.4	6.6
Peer Ranking (percentile)	26	2	5

	Value	Core	Growth
Large			
Medium			
Small			

	12/31/11		9/30/11	
	Vontobel International Equity	MSCI EAFE	Vontobel International Equity	MSCI EAFE
Capitalization Structure:				
Weighted Average Market Cap. (US\$ billion)	55.6	52.6	50.1	48.1
Median Market Cap. (US\$ billion)	21.7	6.3	21.1	6.3
Large (% over US\$10 billion)	82	78	78	76
Medium (% US\$2 billion to US\$10 billion)	17	22	20	23
Small (% under US\$2 billion)	2	1	2	1
Fundamental Structure:				
Price-Earnings Ratio	19	14	18	14
Price-Book Value Ratio	5.0	2.2	4.8	2.1
Dividend Yield (%)	2.8	3.6	3.0	3.7
Historical Earnings Growth Rate (%)	16	3	16	3
Projected Earnings Growth Rate (%)	11	7	8	7
Sector Allocation (%):				
Consumer Staples	46	12	49	11
Health Care	13	10	12	10
Utilities	4	5	4	5
Information Technology	3	5	3	5
Energy	7	9	7	8
Consumer Discretionary	5	10	6	10
Telecom	0	6	0	6
Industrials	6	12	6	12
Materials	3	10	3	10
Financials	11	21	10	22
Diversification:				
Number of Holdings	59	924	56	943
% in 5 largest holdings	24	8	25	8
% in 10 largest holdings	39	14	39	13
Region Allocation (%):				
Americas	17	0	16	0
Europe	54	65	55	64
Pacific Rim	10	35	12	36
Other	19	0	17	0
Largest Five Holdings:				
		Industry		
British American Tobacco	5.3	Food Beverage & Tobacco		
Philip Morris International	5.3	Food Beverage & Tobacco		
Imperial Tobacco	5.0	Food Beverage & Tobacco		
Nestle	4.7	Food Beverage & Tobacco		
Novo-Nordisk	3.6	Pharmaceuticals & Biotech		



Client Pension Fund

SSgA MSCI EAFE Index-NL Portfolio Detail as of 12/31/11

Mandate: International Equities,
Developed Markets

Active/Passive: Passive

Market Value: \$57.1 million

Portfolio Manager: Team

Location: Boston, Massachusetts

Inception Date: 10/1/2006

Account Type: Commingled Fund

Fee Schedule:

0.06% on first \$50 mm; 0.05% on next \$50 mm; 0.04% thereafter

Liquidity Constraints:

Daily

Strategy:

This SSgA MSCI EAFE Index strategy seeks to replicate the returns of the MSCI EAFE index, a proxy for developed market equity performance (excluding the U.S. and Canada). The strategy provides broad diversification (there are 21 developed country indices within the index) at minimal expense.

Performance (%):	4Q11	1 YR	3 YR	5 YR	Since 10/1/06
SSgA MSCI EAFE Index-NL	3.3	-11.9	7.9	-4.4	-2.4
MSCI EAFE	3.3	-12.1	7.6	-4.7	-2.7

Risk: (sixty months)	Standard Deviation	Beta	Sharpe Measure ¹	Info. Ratio	Correlation to Index
SSgA MSCI EAFE Index-NL	22.5%	1.00	Neg.	NA	1.00
MSCI EAFE	22.4	1.00	Neg.	NA	1.00

	Value	Core	Growth
Large			
Medium			
Small			

	12/31/11		9/30/11	
Capitalization Structure:	SSgA MSCI EAFE	MSCI EAFE	SSgA MSCI EAFE	MSCI EAFE
Weighted Average Market Cap. (US\$ billion)	52.5	52.6	48.2	48.1
Median Market Cap. (US\$ billion)	6.1	6.3	6.1	6.3
Large (% over US\$10 billion)	78	78	76	76
Medium (% US\$2 billion to US\$10 billion)	22	22	23	23
Small (% under US\$2 billion)	1	1	1	1

Fundamental Structure:				
Price-Earnings Ratio	14	14	14	14
Price-Book Value Ratio	2.2	2.2	2.1	2.1
Dividend Yield (%)	3.6	3.6	3.7	3.7
Historical Earnings Growth Rate (%)	3	3	3	3
Projected Earnings Growth Rate (%)	7	7	7	7

Sector Allocation (%):				
Financials	21	21	22	22
Industrials	12	12	12	12
Consumer Staples	12	12	11	11
Materials	10	10	10	10
Health Care	10	10	10	10
Consumer Discretionary	10	10	10	10
Energy	9	9	8	8
Telecom	6	6	6	6
Information Technology	5	5	5	5
Utilities	5	5	5	5

Diversification:				
Number of Holdings	962	924	984	943
% in 5 largest holdings	8	8	8	8
% in 10 largest holdings	14	14	14	13

Region Allocation (%):				
Americas	0	0	0	0
Europe	65	65	64	64
Pacific Rim	35	35	36	36
Other	0	0	0	0

Largest Five Holdings:		Industry
Nestle	2.0	Food Beverage & Tobacco
Vodafone	1.5	Telecommunication Services
Novartis	1.4	Pharmaceuticals & Biotech
HSBC Holdings Plc	1.4	Banks
BP	1.4	Energy

¹ A negative Sharpe ratio indicates that the portfolio underperformed the risk-free rate during the sample period.



Client Pension Fund

Artisan International Value Portfolio Detail as of 12/31/11

Mandate: International Equities,
Developed Markets

Active/Passive: Active

Market Value: \$41.5 million

Portfolio Manager: David Samra
Dan O'Keefe

Location: San Francisco, California

Inception Date: 8/1/2009

Account Type: Separately Managed

Fee Schedule:
0.80% on first \$50 mm; 0.60% on next \$50 mm; 0.50% thereafter

Liquidity Constraints:
Daily

Strategy:
Artisan employs a bottom-up investment approach seeking to identify undervalued quality businesses that offer the potential for superior risk/reward outcomes. Artisan runs a somewhat concentrated portfolio of 40 to 60 stocks. They are benchmark-agnostic, and willing to have exposures that are different than the benchmark.

Guidelines:
Benchmark = MSCI EAFE; Max. position < 5% at time of purchase; Max. % in Global securities = 10%; Max. % in convertible securities = 10%; Max. % in one country = 35%

Performance (%):	4Q11	1 YR	Since 8/1/09
Artisan International Value	7.1	-5.8	11.0
MSCI EAFE	3.3	-12.1	2.4
Peer International Value	4.3	-12.0	3.1
Peer Ranking (percentile)	2	8	1

	Value	Core	Growth
Large			
Medium			
Small			

	12/31/11		9/30/11	
	Artisan International Value	MSCI EAFE	Artisan International Value	MSCI EAFE
Capitalization Structure:				
Weighted Average Market Cap. (US\$ billion)	26.2	52.6	24.4	48.1
Median Market Cap. (US\$ billion)	8.0	6.3	6.9	6.3
Large (% over US\$10 billion)	52	78	51	76
Medium (% US\$2 billion to US\$10 billion)	38	22	39	23
Small (% under US\$2 billion)	10	1	9	1
Fundamental Structure:				
Price-Earnings Ratio	16	14	15	14
Price-Book Value Ratio	2.4	2.2	2.2	2.1
Dividend Yield (%)	2.6	3.6	2.7	3.7
Historical Earnings Growth Rate (%)	-1	3	8	3
Projected Earnings Growth Rate (%)	11	7	8	7
Sector Allocation (%):				
Consumer Discretionary	24	10	24	10
Consumer Staples	16	12	16	11
Industrials	17	12	16	12
Information Technology	7	5	7	5
Financials	21	21	23	22
Health Care	9	10	8	10
Utilities	0	5	0	5
Telecom	0	6	0	6
Energy	3	9	3	8
Materials	3	10	3	10
Diversification:				
Number of Holdings	44	924	47	943
% in 5 largest holdings	24	8	22	8
% in 10 largest holdings	41	14	38	13
Region Allocation (%):				
Americas	19	0	18	0
Europe	65	65	65	64
Pacific Rim	15	35	17	36
Other	1	0	1	0
Largest Five Holdings:				
Compass Group	6.4	Consumer Services		
Arch Capital Group	5.0	Insurance		
TE Connectivity	4.7	Technology Hardware		
Signet Jewelers	4.0	Retailing		
Novartis	3.9	Pharmaceuticals & Biotech		



Client Pension Fund

Dimensional Emerging Markets Value Portfolio Detail as of 12/31/11

Mandate: International Equities,
Emerging Markets

Active/Passive: Active

Market Value: \$27.8 million

Portfolio Manager: Team

Location: Santa Monica, California

Inception Date: 7/1/2006

Account Type: Mutual Fund (DFEVX)

Fee Schedule:

0.70% on all assets

Liquidity Constraints:

Daily

Strategy:

Dimensional Fund Advisors' ("DFA") investment approach combines both top-down and bottom-up elements. The top-down analysis involves drawing the boundaries for qualifying countries and company characteristics. It does not include macro-economic forecasting or tactical country allocation decisions. In its bottom-up work, DFA analyzes the attributes of individual securities for portfolio suitability. DFA limits its sector and industry weightings to 25% of the portfolio's market value. Country weights have a maximum target of 15% per country at the time of purchase, to mitigate country risk. Risk is controlled by investing across a broad group of emerging markets companies and countries.

	Value	Core	Growth
Large			
Medium			
Small			

Performance (%):	4Q11	1 YR	3 YR	5 YR	Since 7/1/06
Dimensional Emerging Markets Value	3.6	-25.6	20.4	3.2	7.4
MSCI Emerging Markets	4.4	-18.4	20.1	2.4	6.2
Peer Emerging Markets	5.0	-18.4	20.3	2.1	6.1
Peer Ranking (percentile)	81	93	49	32	30

Risk: (sixty months)	Standard Deviation	Beta	Sharpe Measure	Info. Ratio	Correlation to Index
Dimensional Emerging Markets Value	36.1%	1.10	0.05	0.12	0.98
MSCI Emerging Markets	31.5	1.00	0.03	NA	1.00

	12/31/11		9/30/11	
	Dimensional Emerging Markets Value	MSCI Emerging Markets	Dimensional Emerging Markets Value	MSCI Emerging Markets
Capitalization Structure:				
Weighted Average Market Cap. (US\$ billion)	17.3	41.9	15.9	37.9
Median Market Cap. (US\$ million)	303.8	4,401.7	302.8	4,261.5
Large (% over US\$10 billion)	34	64	33	62
Medium (% US\$2 billion to US\$10 billion)	38	32	38	34
Small (% under US\$2 billion)	29	4	30	4
Fundamental Structure:				
Price-Earnings Ratio	13	14	13	14
Price-Book Value Ratio	1.3	2.5	1.3	2.4
Dividend Yield (%)	3.2	3.0	3.3	3.0
Historical Earnings Growth Rate (%)	8	15	8	15
Projected Earnings Growth Rate (%)	11	11	17	13
Sector Allocation (%):				
Financials	30	24	31	24
Industrials	11	6	11	7
Materials	17	13	17	14
Energy	17	14	17	14
Health Care	1	1	1	1
Consumer Discretionary	8	8	8	8
Consumer Staples	7	8	7	7
Utilities	2	4	2	3
Telecom	2	9	3	9
Information Technology	6	13	6	13
Diversification:				
Number of Holdings	2,183	820	2,192	825
% in 5 largest holdings	13	10	12	9
% in 10 largest holdings	19	16	18	15
Region Allocation (%):				
Asia	60	59	61	59
Latin America	21	23	19	22
Europe, Middle East and Africa	18	18	19	18
Canada	0	0	0	0
Other	1	0	1	0
Largest Five Holdings:				
		Industry		
Gazprom	4.3	Energy		
Petroleo Brasileiro	2.6	Energy		
Bank Of China (Bj)	2.2	Banks		
Petrobras-Petroleo Brasiler	2.0	Energy		
Reliance Industries	1.6	Energy		



Client Pension Fund

Dimensional International Small Cap Value Portfolio Detail as of 12/31/11

Mandate: International Equities,
Developed Markets

Active/Passive: Active

Market Value: \$19.8 million

Portfolio Manager: Team

Location: Santa Monica, CA

Inception Date: 9/1/2008

Account Type: Mutual Fund (DISVX)

Fee Schedule:
0.69% on all assets

Liquidity Constraints:
Daily

Strategy:

The Dimensional (DFA) International Small Cap Value Portfolio is designed to provide broadly diversified exposure to international small cap equities, and will own two thousand companies or more. Portfolio managers seek to achieve long-term capital appreciation by investing in the stocks of small non-U.S. companies which DFA believes to be value stocks at the time of purchase. Securities are considered value stocks primarily because a company's shares have a high book value in relation to their market value. In assessing value, additional factors such as price to cash flow or price to earning ratios may be considered, as well as economic conditions and developments in the issuer's industry. The portfolio currently invests primarily in companies located in Europe and Asia.

Performance (%):	4Q11	1 YR	3 YR	Since 9/1/08
Dimensional International Small Cap Value	1.4	-15.4	10.8	-1.9
MSCI EAFE Small Cap	-0.6	-15.9	14.6	-0.9
Peer International Small Cap	1.9	-14.1	16.5	0.8
Peer Ranking (percentile)	63	62	94	85

Risk: (forty months)	Standard Deviation	Beta	Sharpe Measure ¹	Info. Ratio	Correlation to Index
Dimensional International Small Cap Value	29.7%	1.00	Neg.	Neg.	0.98
MSCI EAFE Small Cap	29.5	1.00	Neg.	NA	1.00

	Value	Core	Growth
Large			
Medium			
Small			

	12/31/11		9/30/11	
	DFA International Small Cap	MSCI EAFE Small Cap	DFA International Small Cap	MSCI EAFE Small Cap
Capitalization Structure:				
Weighted Average Market Cap. (US\$ billion)	1.2	1.4	1.2	1.4
Median Market Cap. (US\$ million)	211.4	569.1	203.2	569.3
Large (% over US\$10 billion)	0	0	0	0
Medium (% US\$2 billion to US\$10 billion)	22	22	18	22
Small (% under US\$2 billion)	78	78	82	78

Fundamental Structure:				
Price-Earnings Ratio	16	17	16	17
Price-Book Value Ratio	0.8	1.9	0.8	1.9
Dividend Yield (%)	3.2	3.3	3.2	3.3
Historical Earnings Growth Rate (%)	-2	5	-2	5
Projected Earnings Growth Rate (%)	20	12	6	7

Sector Allocation (%):				
Materials	18	11	18	11
Industrials	25	23	25	23
Energy	7	5	6	5
Consumer Discretionary	19	18	20	18
Telecom	0	1	0	1
Consumer Staples	5	7	5	7
Financials	18	20	18	20
Utilities	0	2	0	2
Health Care	2	6	2	6
Information Technology	5	9	5	8

Diversification:				
Number of Holdings	2,201	2,362	2,254	2,406
% in 5 largest holdings	5	2	5	2
% in 10 largest holdings	9	3	8	3

Region Allocation (%):				
Americas	14	0	12	0
Europe	49	54	49	54
Pacific Rim	37	46	38	46
Other	0	0	0	0

Largest Five Holdings:		Industry
Bilfinger Berger	1.1	Capital Goods
Hiscox	0.9	Insurance
Travis Perkins	0.9	Capital Goods
Meggitt	0.9	Capital Goods
Trelleborg Ab	0.9	Capital Goods

¹ A negative Sharpe ratio indicates that the portfolio underperformed the risk-free rate during the sample period.



Client Pension Fund

Mandate: International Equities

Active/Passive: Active

Market Value: \$19.3 million

Portfolio Manager: Mark Yockey

Location: San Francisco, CA

Inception Date: 10/1/2010

Account Type: Separately Managed

	Value	Core	Growth
Large			
Medium			
Small			

Fee Schedule:
1.05% on all assets

Liquidity Constraints:
Daily

Strategy:

Artisan believes that a consistent approach to fundamental stock selection will lead to outperformance over a full market cycle. Artisan combines a thematic approach to identifying global trends with a bottom-up search for companies that exhibit sustainable growth and are priced at reasonable valuations. Artisan's idea generation process utilizes quantitative and qualitative screening tools to identify companies that they believe can generate long-term sustainable earnings growth, typically in the 10-20% range. Deep, fundamental research is then conducted on candidate investments to assess the quality of the business. High quality characteristics include a strong management team, a dominant or accelerating industry position, and sustainable competitive advantages. Finally, the focus shifts to valuation. A company's valuation is analyzed on a number of different metrics relative to its own historical range, as well as local and global peers.

Guidelines:

chmark = MSCI EAFE Small Cap; Max. position < 5% at time of purchase; Max. % in emerging markets = 25%;

Performance (%):	4Q11	1 YR	Since 10/1/10
Artisan International Small Cap	2.1	-13.5	-6.0
MSCI EAFE Small Cap	-0.6	-15.9	-4.9
Peer International Small Cap	1.9	-14.1	-4.0
Peer Ranking (percentile)	41	40	80

Artisan International Small Cap Portfolio Detail as of 12/31/11

	12/31/11		9/30/11	
	Artisan International Small Cap	MSCI EAFE Small Cap	Artisan International Small Cap	MSCI EAFE Small Cap
Capitalization Structure:				
Weighted Average Market Cap. (US\$ billion)	2.6	1.4	2.7	1.4
Median Market Cap. (US\$ billion)	1.5	0.6	1.5	0.6
Large (% over US\$10 billion)	4	0	2	0
Medium (% US\$2 billion to US\$10 billion)	36	22	40	22
Small (% under US\$2 billion)	61	78	58	78
Fundamental Structure:				
Price-Earnings Ratio	19	17	17	17
Price-Book Value Ratio	2.6	1.9	2.6	1.9
Dividend Yield (%)	2.2	3.3	2.4	3.3
Historical Earnings Growth Rate (%)	16	5	14	5
Projected Earnings Growth Rate (%)	14	12	9	7
Sector Allocation (%):				
Consumer Discretionary	33	18	30	18
Industrials	29	23	27	23
Consumer Staples	12	7	15	7
Utilities	6	2	6	2
Information Technology	9	9	10	8
Telecom	0	1	0	1
Health Care	4	6	5	6
Energy	0	5	0	5
Materials	5	11	5	11
Financials	1	20	3	20
Diversification:				
Number of Holdings	51	2,362	52	2,406
% in 5 largest holdings	26	2	27	2
% in 10 largest holdings	43	3	43	3
Region Allocation (%):				
Europe/North America	52	53	60	53
Pacific Rim/Asia	19	46	19	46
Asia (emerging)	18	0	18	0
Latin America (emerging)	1	0	1	0
Europe/MidEast/Africa (emerging)	7	0	2	0
Other	3	1	0	1
Largest Five Holdings:				
Wirecard Ag	7.7	Software & Services		
Babcock Intl Group	5.1	Commercial & Professional Services		
Transcontainer OJs	4.5	Transportation		
Davide De Campari	4.3	Food Beverage & Tobacco		
GFK Se	4.2	Media		



Client Pension Fund

Mandate: International Equities,
Emerging Markets

Active/Passive: Active

Market Value: \$13.5 million

Portfolio Manager: Team

Location: Johannesburg, South Africa

Inception Date: 10/1/2010

Account Type: Mutual Fund (TFMAX)

	Value	Core	Growth
Large			
Medium			
Small			

Fee Schedule:
1.85% on all assets

Liquidity Constraints:
Daily

Strategy:

Templeton's investment strategy focuses on three core principles: a value orientation, a patient investment outlook and a bottom-up investment approach. Templeton believes that the combination of these three characteristics provides them the discipline to look beyond short-term news, noise, and emotion, and to focus on the best long-term investment opportunities for their clients. The Templeton process begins with a screen of the investable universe on valuation, size and liquidity to identify potential bargains that may be worth further analysis. Interesting candidates are then subject to intense fundamental research which focuses on both quantitative and qualitative factors. Specific to the Frontier Markets strategy, the Templeton investment team also spends a great deal of time analyzing macro and country-specific factors which are particularly important in this asset class. Each company/market analysis is subject to an extensive peer review by the other members of the investment team. Ultimately a broadly diversified portfolio of 100-150 stocks is constructed and continually monitored by the team.

Performance (%):	4Q11	1 YR	Since 10/1/10
Templeton Frontier Markets	0.5	-18.1	-9.8
MSCI Frontier Market	-1.9	-18.7	-9.9
Peer Emerging Markets	5.0	-18.4	-9.9
Peer Ranking (percentile)	98	48	49

Templeton Frontier Markets Portfolio Detail as of 12/31/11

	12/31/11		9/30/11	
	Templeton Frontier Markets	MSCI Frontier Market	Templeton Frontier Markets	MSCI Frontier Market
Capitalization Structure:				
Weighted Average Market Cap. (US\$ billion)	3.8	6.2	4.8	6.2
Median Market Cap. (US\$ million)	527.2	1,300.3	1,276.0	1,276.0
Large (% over US\$10 billion)	6	24	8	24
Medium (% US\$2 billion to US\$10 billion)	50	47	48	46
Small (% under US\$2 billion)	44	30	44	30
Fundamental Structure:				
Price-Earnings Ratio	9	15	11	15
Price-Book Value Ratio	1.5	2.3	2.1	2.1
Dividend Yield (%)	4.5	5.8	6.6	5.8
Historical Earnings Growth Rate (%)	10	4	5	3
Projected Earnings Growth Rate (%)	8	2	5	3
Sector Allocation (%):				
Materials	11	3	10	3
Energy	17	10	11	10
Consumer Discretionary	3	0	8	1
Health Care	4	2	2	3
Consumer Staples	8	7	9	4
Industrials	6	7	8	7
Telecom	16	17	23	18
Utilities	0	1	1	2
Financials	35	52	27	53
Information Technology	0	0	0	0
Diversification:				
Number of Holdings	82	153	81	161
% in 5 largest holdings	26	26	21	26
% in 10 largest holdings	42	37	35	37
Region Allocation (%):				
Asia	8	6	6	7
Latin America	17	6	14	6
Middle East and Africa	57	76	59	73
Other	18	12	21	14
Largest Five Holdings:				
		Industry		
Kazmunaigas Explor	7.9	Energy		
Orascom Tel Hldg	7.0	Telecommunication Services		
Comm Bk Of Qatar	4.2	Banks		
Qatar Telecom	3.7	Telecommunication Services		
Zenith Bank Plc	3.7	Banks		



Investment Grade Bond Portfolio Reviews As of December 31, 2011

Client Pension Fund

Mandate: Fixed Income
Active/Passive: Active
Market Value: \$84.8 million
Portfolio Manager: William H. Gross
Location: Newport Beach, California
Inception Date: 9/1/1980
Account Type: Separately Managed

	Short	Int.	Long
High			
Medium			
Low			

Fee Schedule:
 0.25% on all assets

Liquidity Constraints:
 Daily

Strategy:

PIMCO Total Return is a core portfolio that typically invests in intermediate term, investment grade bonds and seeks to maximize total return using both top-down and bottom-up analysis to construct portfolios. PIMCO couples their three-to-five year secular outlook for interest rates and the global economy with their bottom-up fundamental credit research to construct the portfolios.

Guidelines:

Benchmark = Barclays Gov't/Credit; Duration = +/- 2 years from index; Max. duration = 7 yrs; Max. % in foreign bonds = 20%; Min. avg quality = "A"; Max. % below "Baa" = 20%

Performance (%):	4Q11	1 YR	3 YR	5 YR	Since 9/1/80
PIMCO Total Return	1.7	8.9	11.9	9.1	9.6
Barclays Gov't/Credit	1.2	8.7	6.6	6.5	8.8
Peer Core Fixed Income	1.2	7.7	6.9	6.8	NA
Peer Ranking (percentile)	14	21	1	1	NA

Risk: (sixty months)	Standard Deviation	Beta	Sharpe Measure	Info. Ratio	Correlation to Index
PIMCO Total Return	7.1%	1.13	1.08	0.59	0.78
Barclays Gov't/Credit	4.8	1.00	1.07	NA	1.00

PIMCO Total Return Portfolio Detail as of 12/31/11

	12/31/11		9/30/11	
Duration & Yield:	PIMCO	Barclays Gov't/Credit	PIMCO	Barclays Gov't/Credit
Average Effective Duration (years)	6.2	6.0	6.2	6.0
Yield to Maturity (%)	3.1	2.0	3.8	2.1
Quality Structure (%):				
Average Quality	AA	AA+	AA	AA+
AAA (includes Treasuries and Agencies)	67	63	66	63
AA	7	8	11	8
A	17	16	12	16
BBB	3	14	4	14
BB	3	0	4	0
B	1	0	-2	0
Below B	2	0	5	0
Non-Rated	0	0	0	0
Sector Allocation (%):				
U.S. Treasury-Nominal	19	53	14	53
U.S. Treasury-TIPS	5	0	5	0
U.S. Agency	1	10	1	10
Mortgage Backed	26	0	35	0
Corporate	17	30	18	30
Bank Loans	0	0	0	0
Local & Provincial Government	11	2	11	2
Sovereign & Supranational	14	4	14	4
Commercial Mortgage Backed	0	0	0	0
Asset Backed	1	0	1	0
Cash Equivalent	3	0	-1	0
Other	1	0	1	0
Market Allocation (%):				
United States	85	88	86	88
Foreign (developed markets)	6	11	6	11
Foreign (emerging markets)	9	1	8	1
Currency Allocation (%):				
Non-U.S. Dollar Exposure	2	0	4	0



Client Pension Fund

Loomis Sayles Multi-Sector Full Discretion Portfolio Detail as of 12/31/11

Mandate: Fixed Income
Active/Passive: Active
Market Value: \$46.3 million
Portfolio Manager: Kathleen Gaffney, CFA
Location: Boston, Massachusetts
Inception Date: 1/1/1996
Account Type: Separately Managed

	Short	Int.	Long
High			
Medium			
Low			

Fee Schedule:
 0.50% on first \$20 mm; 0.40% on next \$30 mm; 0.30% thereafter

Liquidity Constraints:
 Daily

Strategy:

The Loomis Sayles Multi-Sector Full Discretion strategy seeks to exploit the global fixed income insights generated by the Loomis Sayles Fixed Income Team. Portfolio construction is driven by bottom-up security selection and top-down macroeconomic analysis. Portfolios are structured to be benchmark-aware, but not constrained, and tactical investments in non-benchmark sectors (high yield, non-U.S. dollar, and emerging markets) are a key source of potential return.

Guidelines:

Benchmark = Barclays Credit; Max. duration = 8 yrs; Max. % in foreign bonds = 30%; Min. avg quality = "BBB-"; Max. % below "Baa3" = 30%

Performance (%):	4Q11	1 YR	3 YR	5 YR	Since 1/1/96
Loomis Sayles Multi-Sector Full Discretion	2.2	4.5	18.3	7.7	7.1
75% Barclays Credit / 25% Barclays HY	2.9	7.6	14.2	7.1	6.7
Peer Core Plus	1.5	7.5	9.4	6.8	6.4
Peer Ranking (percentile)	6	97	1	14	5
Risk: (sixty months)	Standard Deviation	Beta	Sharpe Measure	Info. Ratio	Correlation to Index
Loomis Sayles Multi-Sector Full Discretion	11.4%	1.31	0.55	0.16	0.96
75% Barclays Credit / 25% Barclays HY	8.3	1.00	0.69	NA	1.00

	12/31/11	75/25	9/30/11	75/25
	Loomis	Leh Credit/ Leh HY	Loomis	Leh Credit/ Leh HY
Duration & Yield:				
Average Effective Duration (years)	5.9	6.1	6.1	6.1
Yield to Maturity (%)	5.5	4.7	5.6	5.1
Quality Structure (%):				
Average Quality	BBB	A-	BBB	A-
AAA (includes Treasuries and Agencies)	15	7	16	7
AA	15	10	16	10
A	11	31	15	31
BBB	31	26	27	26
BB	9	10	11	10
B	9	11	6	11
Below B	10	4	9	4
Non-Rated	0	0	0	0
Sector Allocation (%):				
U.S. Treasury-Nominal	8	0	9	0
U.S. Treasury-TIPS	0	0	0	0
U.S. Agency	4	4	4	4
Mortgage Backed	2	0	0	0
Corporate	57	84	56	84
Bank Loans	0	0	0	0
Local & Provincial Government	5	4	5	4
Sovereign & Supranational	6	8	6	8
Commercial Mortgage Backed	9	0	9	0
Asset Backed	2	0	1	0
Cash Equivalent	8	0	7	0
Other	0	0	2	0
Market Allocation (%):				
United States	71	74	71	74
Foreign (developed markets)	27	24	27	24
Foreign (emerging markets)	3	2	2	2
Currency Allocation (%):				
Non-U.S. Dollar Exposure	22	0	23	0



Client Pension Fund

Mandate: Fixed Income
Active/Passive: Active
Market Value: \$40.5 million
Portfolio Manager: Charlie Groeschell
Location: Milwaukee, Wisconsin
Inception Date: 5/1/2009
Account Type: Separately Managed

	Short	Int.	Long
High			
Medium			
Low			

Fee Schedule:

0.30% on first \$25 mm; 0.25% on next \$25 mm; 0.20% on next \$50 mm; 0.15% thereafter

Liquidity Constraints:

Daily

Strategy:

The Baird Core Plus strategy seeks to outperform the Barclays Aggregate Bond index using a duration neutral process. Baird seeks to add incremental value through security selection, sector allocation, yield curve positioning, but the manager believes it is difficult to accurately forecast interest rates over the long-term.

Guidelines:

Benchmark = Barclays Aggregate; Duration = +/- 1 years from index; Max. % in foreign bonds = 10%; Min. avg quality = "Aa"; Max. % in "A" or below = 30%; Max. % below "Baa" = 10%

Performance (%):	4Q11	1 YR	Since 5/1/09
Baird Advisors Core Plus Bond	1.2	8.3	7.6
Barclays Aggregate	1.1	7.8	7.4
Peer Core Fixed Income	1.2	7.7	7.5
Peer Ranking (percentile)	45	25	43

Baird Advisors Core Plus Bond Portfolio Detail as of 12/31/11

	12/31/11		9/30/11	
Duration & Yield:	Baird Core Plus Bond	Barclays Aggregate	Baird Core Plus Bond	Barclays Aggregate
Average Effective Duration (years)	5.0	5.0	5.0	5.0
Yield to Maturity (%)	2.8	2.2	2.9	2.4
Quality Structure (%):				
Average Quality	AA+	AA+	AA+	AA+
AAA (includes Treasuries and Agencies)	68	75	67	75
AA	6	5	7	5
A	12	11	12	11
BBB	12	9	12	9
BB	0	0	0	0
B	1	0	2	0
Below B	1	0	1	0
Non-Rated	0	0	0	0
Sector Allocation (%):				
U.S. Treasury-Nominal	24	35	24	35
U.S. Treasury-TIPS	0	0	0	0
U.S. Agency	0	7	0	7
Mortgage Backed	30	32	29	32
Corporate	27	20	28	20
Bank Loans	0	0	0	0
Local & Provincial Government	1	1	1	1
Sovereign & Supranational	1	3	1	3
Commercial Mortgage Backed	11	2	9	2
Asset Backed	5	0	5	0
Cash Equivalent	2	0	4	0
Other	1	0	1	0
Market Allocation (%):				
United States	91	92	100	92
Foreign (developed markets)	8	7	0	7
Foreign (emerging markets)	1	1	0	1
Currency Allocation (%):				
Non-U.S. Dollar Exposure	0	0	0	0



Client Pension Fund

Mandate: Fixed Income
Active/Passive: Active
Market Value: \$32.9 million
Portfolio Manager: Jim Sarni, CFA
Location: Los Angeles, California
Inception Date: 5/1/2002
Account Type: Separately Managed

	Short	Int.	Long
High			
Medium			
Low			

Fee Schedule:
 0.23% on all assets

Liquidity Constraints:
 Daily

Strategy:

Payden Core Fixed Income is a high quality, intermediate term core bond strategy that includes all maturities and sectors in the investment-grade fixed income market. The portfolio primarily consists of Treasuries, Agencies, investment-grade corporates, and asset/mortgage-backed securities.

Guidelines:

Benchmark = Barclays Aggregate; Duration = +/- 1 years from index; Max. % in foreign bonds = 10%; Min. avg quality = "Aa"; Min. % in securities issued by U.S. government or its agencies = 50%; Max. % in "A" or below = 30%; Max. % below "Baa" = 10%

Performance (%):	4Q11	1 YR	3 YR	5 YR	Since 5/1/02
Payden Core Fixed Income	1.4	6.7	7.3	6.0	5.5
Barclays Aggregate	1.1	7.8	6.8	6.5	5.8
Peer Core Fixed Income	1.2	7.7	6.9	6.8	6.0
Peer Ranking (percentile)	33	73	39	88	87

Risk: (sixty months)	Standard Deviation	Beta	Sharpe Measure	Info. Ratio	Correlation to Index
Payden Core Fixed Income	3.9%	1.00	1.15	Neg.	0.96
Barclays Aggregate	3.8	1.00	1.32	NA	1.00

Payden Core Fixed Income Portfolio Detail as of 12/31/11

	12/31/11		9/30/11	
Duration & Yield:	Payden & Rygel	Barclays Aggregate	Payden & Rygel	Barclays Aggregate
Average Effective Duration (years)	5.1	5.0	5.0	5.0
Yield to Maturity (%)	2.8	2.2	2.8	2.4
Quality Structure (%):				
Average Quality	AA	AA+	A+	AA+
AAA (includes Treasuries and Agencies)	62	75	5	75
AA	9	5	64	5
A	9	11	13	11
BBB	17	9	14	9
BB	1	0	1	0
B	2	0	4	0
Below B	0	0	0	0
Non-Rated	0	0	0	0
Sector Allocation (%):				
U.S. Treasury-Nominal	12	35	14	35
U.S. Treasury-TIPS	0	0	0	0
U.S. Agency	0	7	0	7
Mortgage Backed	40	32	41	32
Corporate	34	20	34	20
Bank Loans	0	0	0	0
Local & Provincial Government	0	1	0	1
Sovereign & Supranational	1	3	1	3
Commercial Mortgage Backed	0	2	0	2
Asset Backed	0	0	0	0
Cash Equivalent	10	0	8	0
Other	3	0	3	0
Market Allocation (%):				
United States	96	92	94	92
Foreign (developed markets)	3	7	5	7
Foreign (emerging markets)	1	1	1	1
Currency Allocation (%):				
Non-U.S. Dollar Exposure	0	0	0	0



Client Pension Fund

Wellington Opportunistic Emerging Market Debt Portfolio Detail as of 12/31/11

Mandate: Fixed Income
Active/Passive: Active
Market Value: \$26.2 million
Portfolio Manager: Jim Valone and Ricardo Adrogue
Location: Boston, MA
Inception Date: 10/1/2010
Account Type: Commingled Fund

	Short	Int.	Long
High			
Medium			
Low			

Fee Schedule:
 0.55% on all assets

Liquidity Constraints:
 Monthly

Strategy:

The Wellington Opportunistic Emerging Markets Debt strategy employs an unconstrained, best ideas approach in order to take advantage of investment opportunities in emerging markets sovereign, corporate, and local markets. Wellington believes that emerging markets must be approached from a global perspective and that market inefficiencies can be exploited through the use of proprietary, quantitative, and fundamental research integrated into a disciplined investment process. Portfolios will invest primarily in the liquid, tradable sovereign and corporate bonds of emerging countries, as well as local currency-denominated bonds on both a hedged and an unhedged basis. There is no minimum credit rating for holdings in securities or currencies, but typical average portfolio credit quality is expected to be investment grade. The Wellington team makes limited use of derivatives within the portfolio. Occasionally, they will enter into interest rate or total return swaps to help manage portfolio duration or gain exposure to local markets when pricing or liquidity is more attractive in the derivatives market than in the cash bond market.

Performance (%):

	4Q11	1 YR	Since 10/1/10
Wellington Opportunistic Emerging Market Debt	4.5	5.3	3.7
JPMorgan EMBI Global	5.1	8.5	5.1

	12/31/11		9/30/11	
	Wellington Emerging Debt	JPMorgan EMBI Global	Wellington Emerging Debt	JPMorgan EMBI Global
Duration & Yield:				
Average Effective Duration (years)	6.2	7.0	5.9	6.9
Yield to Maturity (%)	5.5	5.7	6.0	6.1
Quality Structure (%):				
Average Quality	BBB-	BB +	BB	BB +
AAA (includes Treasuries and Agencies)	0	0	0	0
AA	16	2	6	2
A	8	7	9	7
BBB	39	45	37	48
BB	21	26	21	25
B	10	12	11	11
Below B	0	0	0	0
Non-Rated	6	8	17	6
Sector Allocation (%):				
U.S. Treasury-Nominal	0	0	0	0
U.S. Treasury-TIPS	0	0	0	0
U.S. Agency	0	0	0	0
Mortgage Backed	0	0	0	0
Corporate	0	0	0	0
Bank Loans	0	0	0	0
Local & Provincial Government	0	0	0	0
Sovereign & Supranational	100	100	100	100
Commercial Mortgage Backed	0	0	0	0
Asset Backed	0	0	0	0
Cash Equivalent	0	0	0	0
Other	0	0	0	0
Market Allocation (%):				
United States	0	0	0	0
Foreign (developed markets)	0	0	0	0
Foreign (emerging markets)	100	100	100	100
Currency Allocation (%):				
Non-U.S. Dollar Exposure	41	100	41	100



Mandate: Fixed Income
Active/Passive: Active
Market Value: \$15.8 million
Portfolio Manager: Herbert Kolben
Location: Washington, District of Columbia
Inception Date: 1/1/2010
Account Type: Separately Managed

Fee Schedule:
 0.75% on first \$100mm; 0.1% loan servicing fee

Liquidity Constraints:
 Monthly

Strategy:

The ULLICO Separate Account W1 portfolio will primarily consist of construction and permanent mortgage loans issued for U.S. commercial properties. The management team targets investments in forward permanent and construction loans for new construction or extensive renovation projects. From time to time, and subject to excess liquidity and market conditions, the account may invest in permanent mortgages on existing buildings. Loans made by Union Labor Life using account proceeds are generally collateralized by first mortgages on real property. Union Labor Life's investment strategy aims to capitalize on opportunities in the current real estate market by making loans to borrowers in connection with their projects related to multi-family (rental and for sale), multi-tenanted, single-tenanted and owner occupied properties, including office, medical office, anchored retail, industrial, and business-oriented hotels with major chains. Union Labor Life uses account proceeds to invest in metropolitan areas

Performance (%):	4Q11	1 YR	Since 1/1/10
ULLICO Separate Account W1	1.1	4.5	2.8
Barclays Mortgage	0.9	6.2	5.8

Client Pension Fund

AFL-CIO Housing Investment Trust Portfolio Detail as of 12/31/11

Mandate: Fixed Income
Active/Passive: Active
Market Value: \$10.2 million
Portfolio Manager: Chang Suh
Location: Washington, District of Columbia
Inception Date: 10/1/2011
Account Type: Commingled Fund

	Short	Int.	Long
High			
Medium			
Low			

Fee Schedule:
 0.41% on all assets
Liquidity Constraints:
 Monthly (Last day of the month)

Strategy:

The AFL-CIO Housing Investment Trust (HIT) is a fixed income investment program comprised of high grade, public- and private-market mortgage bonds. The HIT portfolio combines long-duration, agency-insured multifamily mortgage-backed securities (MBS) with short-duration, single-family MBS and intermediate-term agency securities. The structure of the HIT portfolio means that it will not possess credit risk. Unlike most mortgage investments, the HIT portfolio invests mainly in issues with limited prepayment risk.

Performance (%):	4Q11	YTD	Since 10/1/11
AFL-CIO Housing Investment Trust	1.5	NA	1.5
Barclays Mortgage	0.9	6.2	0.9

	12/31/11		9/30/11	
Duration & Yield:	AFL CIO HIT	Barclays Mortgage	AFL CIO HIT	Barclays Mortgage
Average Effective Duration (years)	4.3	2.9	4.3	3.0
Yield to Maturity (%)	2.8	2.7	2.9	2.8
Quality Structure (%):				
Average Quality	AAA	AAA	AAA	AAA
AAA (includes Treasuries and Agencies)	94	100	94	100
AA	4	0	4	0
A	2	0	2	0
BBB	0	0	0	0
BB	0	0	0	0
B	0	0	0	0
Below B	0	0	0	0
Non-Rated	0	0	0	0
Sector Allocation (%):				
U.S. Treasury-Nominal	8	0	6	0
U.S. Treasury-TIPS	0	0	0	0
U.S. Agency	0	0	0	0
Mortgage Backed	26	100	27	100
Corporate	0	0	0	0
Bank Loans	0	0	0	0
Local & Provincial Government	0	0	0	0
Sovereign & Supranational	0	0	0	0
Commercial Mortgage Backed	65	0	65	0
Asset Backed	0	0	0	0
Cash Equivalent	1	0	2	0
Other	0	0	0	0
Market Allocation (%):				
United States	100	100	100	100
Foreign (developed markets)	0	0	0	0
Foreign (emerging markets)	0	0	0	0
Currency Allocation (%):				
Non-U.S. Dollar Exposure	0	0	0	0



Client Pension Fund

ERECT Fund I Portfolio Detail as of 12/31/11

Mandate: Fixed Income

Active/Passive: Active

Market Value: \$6.1 million

Portfolio Manager: Tad Imbrie

Location: Pittsburgh, Pennsylvania

Inception Date: 12/1/2006

Account Type: Commingled Fund

Fee Schedule:

1.35% on invested assets; 0.2% on cash balances

Liquidity Constraints:

Daily

Strategy:

The ERECT Fund I, a commingled fund, provides exposure to mortgage-backed securities and multi-family housing loans while attempting to outperform the Barclays Mortgage Index over long time periods. The fund provides for month-end liquidity, preferring 5 to 10 days advance notice of withdrawals. The ERECT Fund invests in private real estate that involves construction. All properties are located in eastern Ohio, western Pennsylvania, and West Virginia. The fund can invest in various property types, including office, retail, apartments, condominiums, warehouses, medical office buildings, and hotels. The ERECT Fund I provides first and second mortgage loans for commercial real estate projects, essentially underwriting construction risk for the projects. Generally, the loans are held to maturity in order to generate income, but they may be sold by the fund's managers.

Performance (%):	4Q11	1 YR	3 YR	5 YR	Since 12/1/06
ERECT Fund I	0.6	1.9	2.2	4.1	4.0
Barclays Mortgage	0.9	6.2	5.8	6.5	6.4
Risk: (sixty months)	Standard Deviation	Beta	Sharpe Measure	Info. Ratio	Correlation to Index
ERECT Fund I	2.8%	0.36	0.95	Neg.	0.39
Barclays Mortgage	3.0	1.00	1.71	NA	1.00



Client Pension Fund

ULLICO "J for Jobs" Portfolio Detail as of 12/31/11

Mandate: Fixed Income
Active/Passive: Active
Market Value: \$5.3 million
Portfolio Manager: Herbert Kolben
Location: Washington, District of Columbia
Inception Date: 10/1/2006
Account Type: Commingled Fund

Fee Schedule:
 0.675% on all assets

Liquidity Constraints:
 Monthly

Strategy:

The "J for Jobs" portfolio is an open-ended, commingled pool that invests in high-quality secured mortgages on development projects. Investments in "J for Jobs" are primarily in new construction or extensive renovations. The portfolio consists of high-quality construction loans and permanent mortgages secured by a variety of properties throughout the United States. To qualify for a "J for Jobs" mortgage, borrowers must certify that they will employ contractors and subcontractors signatory to collective bargaining agreements with unions affiliated with their local Building and Construction Trades Council. All projects are by construction workers affiliated with the Buildings and Construction Trades Department of the AFL-CIO. Additionally, all assets held by the "J for Jobs" fund are in a separate account that is fully insulated from the creditors of ULLICO.

Performance (%):	4Q11	1 YR	3 YR	5 YR	Since 10/1/06
ULLICO "J for Jobs"	0.6	3.5	-1.8	1.7	2.1
Barclays Mortgage	0.9	6.2	5.8	6.5	6.5
Risk: (sixty months)	Standard Deviation	Beta	Sharpe Measure	Info. Ratio	Correlation to Index
ULLICO "J for Jobs"	2.5%	-0.07	0.11	Neg.	-0.03
Barclays Mortgage	3.0	1.00	1.71	NA	1.00



High Yield Bond Portfolio Reviews As of December 31, 2011

Client Pension Fund

Mandate: Fixed Income
Active/Passive: Active
Market Value: \$63.0 million
Portfolio Manager: Brendan White
Location: Cincinnati, Ohio
Inception Date: 10/1/2011
Account Type: Commingled Fund

	Short	Int.	Long
High			
Medium			
Low			

Fee Schedule:
 0.50% on first \$25 million; 0.45% on next \$25 million; 0.35% thereafter

Liquidity Constraints:
 Daily

Strategy:

The Fort Washington High Yield strategy seeks to outperform over a full market cycle by protecting principal in phases of market decline while providing a stable base of income across all periods. The portfolio managers emphasize higher quality credits and will not buy securities rated CCC or below.

Performance (%):	4Q11	YTD	Since 10/1/11
Fort Washington High Yield	6.4	NA	6.4
Barclays High Yield BB/B	6.0	6.1	6.0
Peer High Yield	6.1	4.6	6.1
Peer Ranking (percentile)	34	NA	34

Fort Washington High Yield Portfolio Detail as of 12/31/11

	12/31/11		9/30/11	
	Fort WA IA	Barclays HY BB/B	Fort WA IA	Barclays HY BB/B
Duration & Yield:				
Average Effective Duration (years)	4.6	4.3	4.4	4.6
Yield to Maturity (%)	7.3	7.3	8.1	8.4
Quality Structure (%):				
Average Quality	BB-	BB	BB-	BB
AAA (includes Treasuries and Agencies)	1	0	3	0
AA	0	0	0	0
A	0	0	0	0
BBB	2	0	1	0
BB	45	48	44	48
B	51	52	51	52
Below B	2	0	1	0
Non-Rated	0	0	0	0
Sector Allocation (%):				
U.S. Treasury-Nominal	0	0	0	0
U.S. Treasury-TIPS	0	0	0	0
U.S. Agency	0	0	0	0
Mortgage Backed	0	0	0	0
Corporate	99	100	97	100
Bank Loans	0	0	0	0
Local & Provincial Government	0	0	0	0
Sovereign & Supranational	0	0	0	0
Commercial Mortgage Backed	0	0	0	0
Asset Backed	0	0	0	0
Cash Equivalent	1	0	3	0
Other	0	0	0	0
Market Allocation (%):				
United States	91	100	100	100
Foreign (developed markets)	8	0	0	0
Foreign (emerging markets)	1	0	0	0
Currency Allocation (%):				
Non-U.S. Dollar Exposure	0	0	0	0



Client Pension Fund

Shenkman Cremos Floating Rate Fund, L.P. Portfolio Detail as of 12/31/11

Mandate: High Yield
Active/Passive: Active
Market Value: \$41.3 million
Portfolio Manager: Jonathan Savas and Beth Wahlig
Location: New York, New York
Inception Date: 6/1/2010
Account Type: Commingled Fund

	Short	Int.	Long
High			
Medium			
Low			

Fee Schedule:
 0.50% on all assets

Liquidity Constraints:
 Quarterly

Strategy:

The investment objective of the Cremos Fund is to maximize total returns (i.e., current income and capital appreciation) by investing primarily in senior secured, floating rate loans of non-investment grade (i.e., "high yield") companies. The portfolio strategy is conservatively managed and focused on preserving capital and generating strong returns through the selection of high quality credits.

Performance (%):	4Q11	1 YR	Since 6/1/10
Shenkman Cremos Floating Rate Fund, L.P.	3.0	1.0	4.7
CSFB Leveraged Loan	2.7	1.8	5.1



TIPS Portfolio Reviews As of December 31, 2011

Client Pension Fund

JPMorgan Safety Reserve (TIPS) Portfolio Detail as of 12/31/11

Mandate: Safety Reserve®

Active/Passive: Active

Market Value: \$77.4 million

Portfolio Manager: Doug Gimple

Location: Columbus, Ohio

Inception Date: 4/1/1995

Account Type: Separately Managed

	Short	Int.	Long
High			
Medium			
Low			

Fee Schedule:
0.06% on all assets

Liquidity Constraints:
Daily

Strategy:
The J.P. Morgan Safety Reserve (TIPS) portfolio invests primarily in a portfolio of domestic inflation-linked securities. In addition to serving as a potential source of cash in a crisis (as well as for ongoing benefit payments), the Safety Reserve® is an extremely conservative and stable investment portfolio.

Guidelines:
Permissible assets include U.S. TIPS, U.S. Treasury and agency securities, STIF accounts at the custodian bank, and funds invested by a designated cash manager.

Performance (%):	4Q11	1 YR	3 YR	5 YR	Since 4/1/95
JPMorgan Safety Reserve (TIPS)	2.6	13.3	10.3	8.0	6.2
Custom Benchmark ¹	2.7	13.6	10.4	7.7	5.9
Peer TIPS	2.6	12.8	10.1	7.9	NA
Peer Ranking (percentile)	59	42	41	43	NA
Risk: (sixty months)	Standard Deviation	Beta	Sharpe Measure	Info. Ratio	Correlation to Index
JPMorgan Safety Reserve (TIPS)	8.3%	1.04	0.79	0.24	0.99
Custom Benchmark ¹	7.9	1.00	0.80	NA	1.00

	12/31/11		9/30/11	
Duration & Yield:	J.P. Morgan	Barclays TIPS	J.P. Morgan	Barclays TIPS
Average Effective Duration (years)	4.8	4.2	4.7	5.5
Yield to Maturity (%)	1.8	1.7	2.0	1.9

Quality Structure (%):				
Average Quality	AAA	AAA	AAA	AAA
AAA (includes Treasuries and Agencies)	100	100	100	100
AA	0	0	0	0
A	0	0	0	0
BBB	0	0	0	0
BB	0	0	0	0
B	0	0	0	0
Below B	0	0	0	0
Non-Rated	0	0	0	0

Sector Allocation (%):				
U.S. Treasury-Nominal	0	0	0	0
U.S. Treasury-TIPS	99	100	97	100
U.S. Agency	0	0	0	0
Mortgage Backed	0	0	0	0
Corporate	0	0	0	0
Bank Loans	0	0	0	0
Local & Provincial Government	0	0	0	0
Sovereign & Supranational	0	0	0	0
Commercial Mortgage Backed	0	0	0	0
Asset Backed	0	0	0	0
Cash Equivalent	1	0	3	0
Other	0	0	0	0

Market Allocation (%):				
United States	100	100	100	100
Foreign (developed markets)	0	0	0	0
Foreign (emerging markets)	0	0	0	0

Currency Allocation (%):				
Non-U.S. Dollar Exposure	0	0	0	0

¹ Through May 31, 2006, J.P. Morgan was benchmarked to the Barclays 1-3 Year Government index. Beginning June 1, 2006, the benchmark changed to 50% Barclays 1-3 Year Government index and 50% Barclays U.S. TIPS index. Beginning in November 1, 2007, the benchmark changed to the Barclays U.S. TIPS index.



Client Pension Fund

Mandate: Safety Reserve®
Active/Passive: Active
Market Value: \$20.7 million
Portfolio Manager: Anthony P. Santoliquido
Location: Jersey City, New Jersey
Inception Date: 4/1/2010
Account Type: Separately Managed

	Short	Int.	Long
High			
Medium			
Low			

Fee Schedule:
 0.15% on all assets

Liquidity Constraints:
 Daily

Strategy:

The HGK Fixed Income strategy emphasizes spread risk versus treasuries, in lieu of credit risk. HGK focuses on spread risk by allocating to "AA" & "AAA" rated U.S. agencies, MBS, ABS, and CMBS. HGK restricts unsecured fixed income securities rated "AA" or lower to 1.5% of the portfolio and they mandate that credit based securities that are downgraded to below "A" are sold.

Performance (%):	4Q11	1 YR	Since 4/1/10
HGK Fixed Income	0.6	3.0	2.0
Merrill Lynch Treasury 1-3 Year	0.2	1.6	1.8

HGK Fixed Income Portfolio Detail as of 12/31/11

	12/31/11	
Duration & Yield:	HGK	ML 1-3 yr Treas
Average Effective Duration (years)	2.0	1.9
Yield to Maturity (%)	0.0	0.3
Quality Structure (%):		
Average Quality	AA+	AAA
AAA (includes Treasuries and Agencies)	30	100
AA	70	0
A	0	0
BBB	0	0
BB	0	0
B	0	0
Below B	0	0
Non-Rated	0	0
Sector Allocation (%):		
U.S. Treasury-Nominal	29	100
U.S. Treasury-TIPS	0	0
U.S. Agency	71	0
Mortgage Backed	0	0
Corporate	0	0
Bank Loans	0	0
Local & Provincial Government	0	0
Sovereign & Supranational	0	0
Commercial Mortgage Backed	0	0
Asset Backed	0	0
Cash Equivalent	0	0
Other	0	0
Market Allocation (%):		
United States	100	100
Foreign (developed markets)	0	0
Foreign (emerging markets)	0	0
Currency Allocation (%):		
Non-U.S. Dollar Exposure	0	0



Real Estate Portfolio Reviews As of December 31, 2011

Client Pension Fund

Real Estate Fund XIII Portfolio Detail as of 12/31/11

Strategy: Real Estate
Private Market
Diversified Core

Market Value: \$15.2 million

Senior Professionals: Mr. B

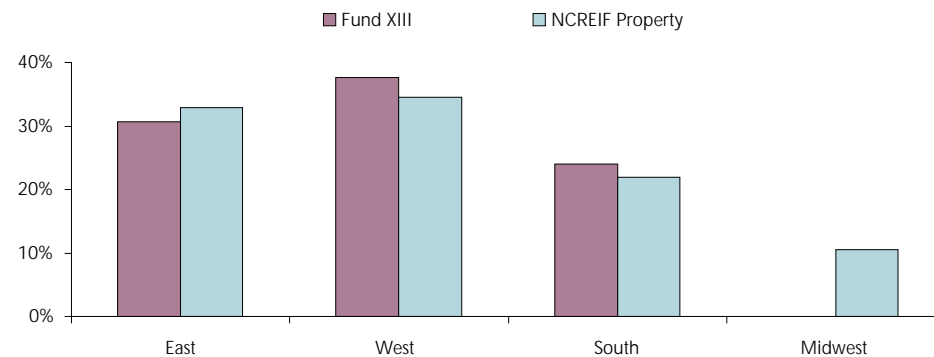
Location: West Coast United States

Account Type: Commingled Fund

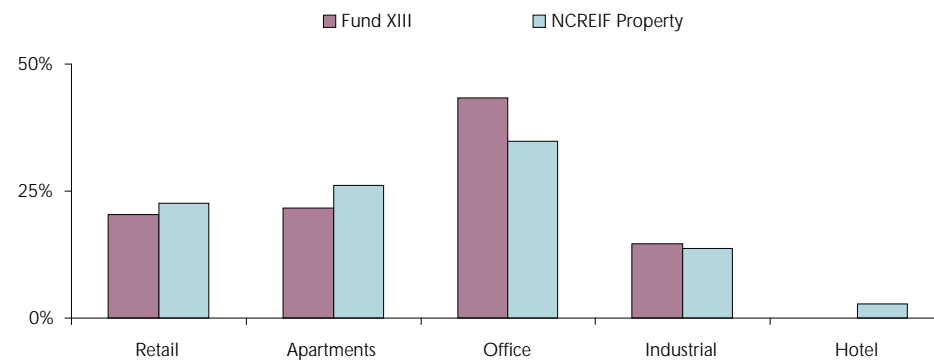
Liquidity Constraints: Quarterly

Fee Schedule: 1.10% on first \$25 mm; 0.95% on next \$50 mm; 0.85% thereafter

Geographic Region:



Property Type:



Performance (%):	4Q11	YTD	Since yyyy
Real Estate Fund XIII	2.4	NA	2.6
NCREIF Property	3.0	14.3	6.4
NCREIF ODCE	3.0	16.0	6.6

Investment Strategy:

Real Estate Fund XIII targets institutional-quality office, industrial, retail, and multifamily properties in the United States. Fund XIII will seek properties in the \$5 million to \$50 million range. Target properties will be 80% to 100% occupied, less than ten years old, and will be diversified by tenant base

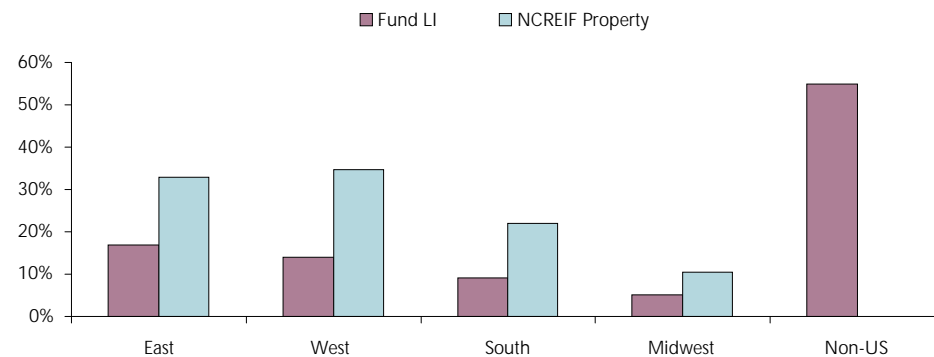


Client Pension Fund

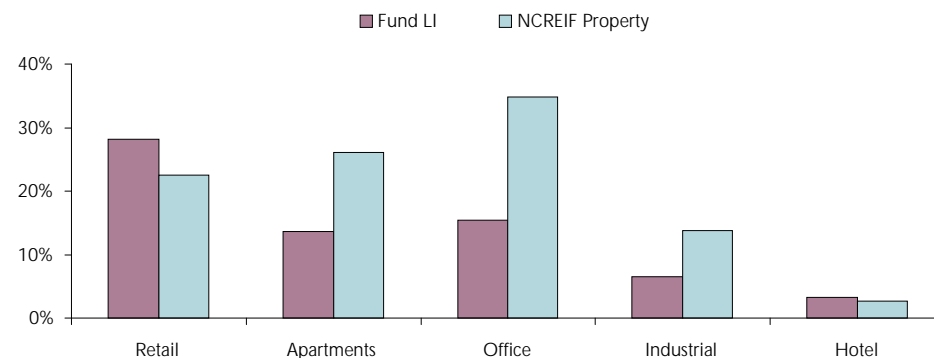
Real Estate Fund LI Portfolio Detail as of 12/31/11

Strategy: Real Estate
 Public Market
 Public REITS
Market Value: \$20.4 million
Senior Professionals: Team
Location: New England
Inception Date: yyyy
Account Type: Separately Managed
Liquidity Constraints: Daily
Fee Schedule: 0.65% on all assets

Geographic Region:



Property Type:



Performance (%):	4Q11	1 YR	3 YR	Since yyyy
Real Estate Fund LI	6.9	-4.1	15.4	-0.2
S&P/Citigroup BMI World Property Index	6.2	-5.7	13.9	-1.9
Peer Global REIT	7.5	-6.6	15.0	-0.9
Peer Ranking (percentile)	61	11	39	16

Investment Strategy:

Real Estate Fund LI's team uses a top-down and bottom-up investment approach to construct a portfolio of 90 to 110 listed real estate-related securities, made up of an investment universe including REITs and REOCs. The expected annual average turnover rate will range from 40% to 80%. A Global Investment Policy Committee meets quarterly to determine allocation decisions at the country/regional and sector level, after which Fund LI utilizes a proprietary system which ranks securities based on quantitative and qualitative factors.

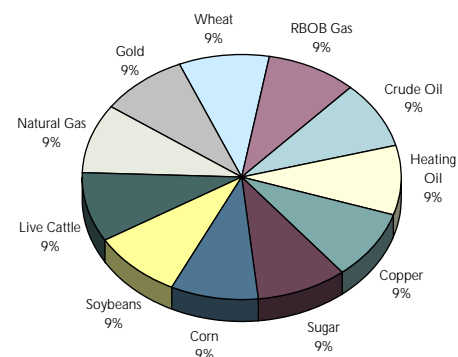


Natural Resources Portfolio Reviews As of December 31, 2011

Client Pension Fund

Natural Resources Fund V Portfolio Detail as of 12/31/11

Mandate: Natural Resources
Active/Passive: Active
Market Value: \$10.2 million
Portfolio Manager: Mr. A
Location: Northeastern United States
Inception Date: yyyy
Account Type: Commingled Fund



Fee Schedule:
 1.25% on all assets

Liquidity Constraints:
 Monthly (First and last day of the month)

Strategy:
 Natural Resources Fund V is a trend following strategy that invests in commodity futures. It is a systematic program that initiates a long position when the front month futures prices crosses above the 200 daily moving average. The program covers 11 commodities and is equal weighted. The program will automatically roll if the price remains above the 200 daily moving average. A sell signal is generated if the futures price crosses below the 200 daily moving average.

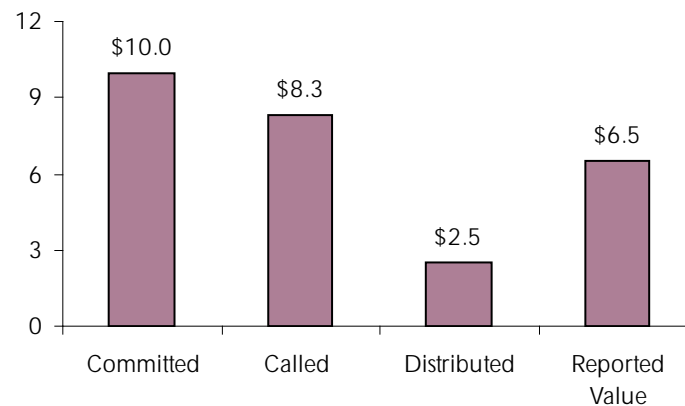
Performance (%):	4Q11	1 YR	Since yyyy
Natural Resources Fund V	-1.8	1.6	1.1
Dow Jones-Commodity U.S. Index	0.3	-13.4	3.6



Client Pension Fund

Natural Resources Fund I Portfolio Detail as of 12/31/11

Strategy:	Natural Resources Special Situations	Commitment:	\$10.0 million
Senior Professionals:	Team	Capital Contributions:	\$8.3 million
Location:	New England	Outstanding Commitment:	\$1.7 million
Vintage Year:	yyyy	Realized Proceeds:	\$2.5 million
Fee Schedule:	1.36% of commitments; 20% carried interest; 8% preferred return	Total Value:	\$6.5 million



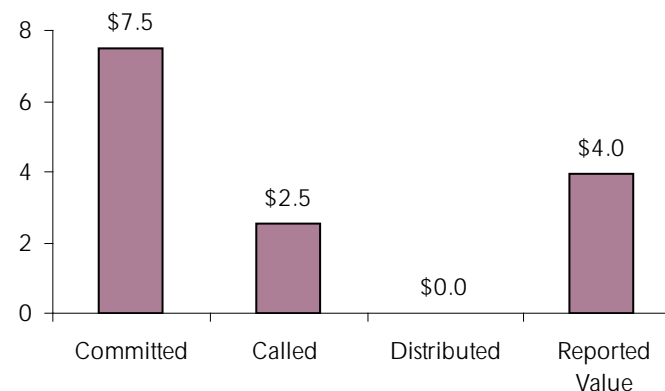
Investment Strategy:

Natural Resources Fund I was formed to make investments in energy-related service companies with limited holdings of natural resources, such as coal mines. The managers will typically focus on companies with enterprise values of \$300 million to \$4 billion. Typical equity investments will range from \$100 million to \$500 million. In some cases, with an emerging technology, they may make smaller investments to develop a company with a proven concept or process where there is execution risk but no technology risk. The Fund may also invest in environmentally friendly power generation techniques and infrastructure.

Client Pension Fund

Natural Resources Fund II Portfolio Detail as of 12/31/11

Strategy:	Natural Resources	Commitment:	\$7.5 million
Senior Professionals:	Mr. A	Capital Contributions:	\$2.5 million
Location:	Tri-State Area	Outstanding Commitment:	\$5.0 million
Vintage Year:	yyyy	Realized Proceeds:	\$0.0 million
Fee Schedule:	1.875% mgt fee, 8% preferred return, 19.75% carry	Total Value:	\$4.0 million



Investment Strategy:

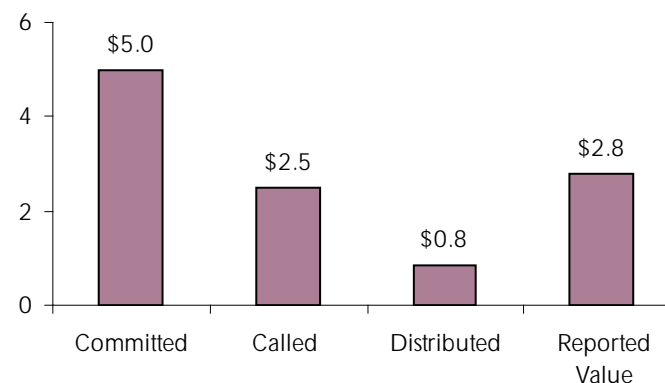
Natural Resources Fund II will make growth equity and buyout investments in middle-market North American energy companies. Fund II targets undermanaged companies and will bring in new resources to grow and manage the businesses more effectively. The Fund will only invest when it is the largest investor and has a controlling position. Approximately 50% of the Fund's investments will be in oil and gas exploration and production companies and the remaining 50% invested in energy services companies. The Fund may invest in midstream assets. The Fund will invest \$50 to \$100 million in nine to twelve energy companies with enterprise values ranging from \$50 to \$200 million. The Fund will limit acquisition leverage to 30% to 50% and will use an active hedging program to lower volatility when acquiring existing reserves.



Client Pension Fund

Natural Resources Fund VI Portfolio Detail as of 12/31/11

Strategy:	Natural Resources	Commitment:	\$5.0 million
Senior Professionals:	Team	Capital Contributions:	\$2.5 million
Location:	Northeastern United States	Outstanding Commitment:	\$2.5 million
Vintage Year:	yyyy	Realized Proceeds:	\$0.8 million
Fee Schedule:	2% management fee, 8% preferred return, 20% carried interest	Total Value:	\$2.8 million



Investment Strategy:

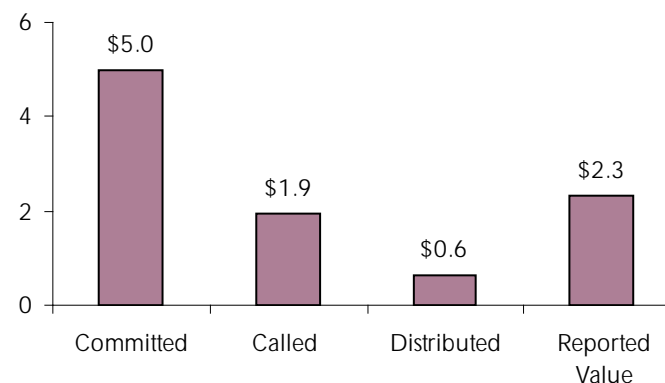
Natural Resources Fund VI will make investments in small to medium sized metals and mining companies with market capitalizations ranging from \$25 million to \$250 million. Fund VI will invest in both public and private companies with undervalued assets. The typical company will have completed basic exploration, identified a mineral body, and completed scoping studies, typically at the pre-feasibility stage or later. The team may also invest in non-core assets of larger companies or distressed opportunities. The Fund's geographic focus will be industrialized countries, such as Australia, Canada, and the U.S., but may invest in certain emerging markets. The Fund will make 10 to 15 "core" investments in the amount of \$10 million to \$100 million, and will also make 10 to 15 smaller "strategic equity" investments ranging from less than \$1 million to \$10 million. To mitigate risk, the team prefers to utilize secured convertible securities to attain debt style protection with equity upside exposure.



Client Pension Fund

Natural Resources Fund IX Portfolio Detail as of 12/31/11

Strategy:	Natural Resources Extracted Upstream	Commitment:	\$5.0 million
Senior Professionals:	Team	Capital Contributions:	\$1.9 million
Location:	Southern United States	Outstanding Commitment:	\$3.1 million
Vintage Year:	yyyy	Realized Proceeds:	\$0.6 million
		Total Value:	\$2.3 million



Investment Strategy:

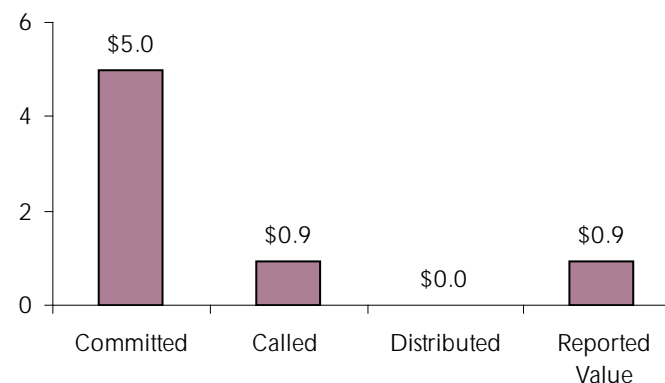
Natural Resources Fund IX is a diversified, international energy partnership with a focus on acquiring existing companies with proven management teams in the oil and gas, coal, and power industries. Fund IX will also back management teams with new strategies and no existing assets, if an attractive opportunity presents itself. The Partnership will target 12 to 20 total investments, with commitment sizes ranging from \$10 million to \$75 million per company. The total portfolio is likely to be 75% invested in U.S. companies and 25% in non-U.S. companies, with the majority of the non-U.S. assets being in China and focused on coal. Fund IX's target assets for the Fund will be 55-80% oil and gas, 15-30% coal, and 5-15% other (power). Sixty percent of the Fund's capital is likely to be invested in direct assets, with 40% invested in services companies. Fund IX expects to be a control investor for most of its U.S. based investments.



Client Pension Fund

Natural Resources Fund XIII Portfolio Detail as of 12/31/11

Strategy:	Natural Resources Extracted Upstream	Commitment:	\$5.0 million
Senior Professionals:	Team	Capital Contributions:	\$0.9 million
Location:	Southern United States	Outstanding Commitment:	\$4.1 million
Vintage Year:	yyyy	Realized Proceeds:	\$0.0 million
		Total Value:	\$0.9 million



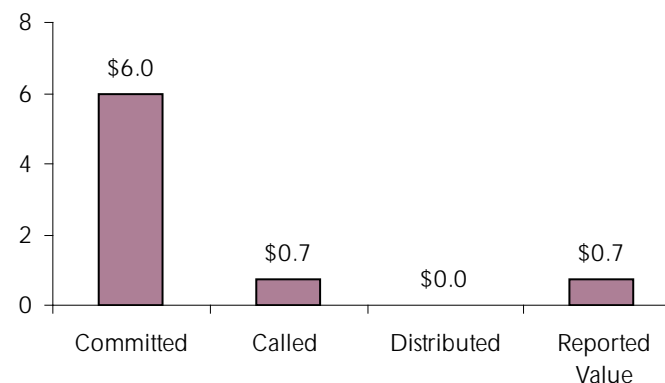
Investment Strategy:

Natural Resources Fund XIII will acquire and operate mature, producing oil and gas assets that can generate a high current yield over the term of the partnership. Fund XIII is managed by Manager G, an operating company with over 500 employees across 15 field offices in the U.S. and Canada. Fund XIII typically invests in onshore, U.S. assets in transactions that require over \$100 million. The Fund seeks to limit risk by pricing acquisitions conservatively, spreading the investment period over six to nine years, and hedging up to 70% of the production during the first three years of operating an asset. It then seeks to reduce the hedges to an average of 40% over the full term of the partnership.

Client Pension Fund

Natural Resources Fund XII Portfolio Detail as of 12/31/11

Strategy:	Natural Resources Extracted Upstream	Commitment:	\$6.0 million
Senior Professionals:	Team	Capital Contributions:	\$0.7 million
Location:	Southern United States	Outstanding Commitment:	\$5.3 million
Vintage Year:	yyyy	Realized Proceeds:	\$0.0 million
Fee Schedule:	1.5% of committed during the commitment period; 1.5% of net funded commitments after the commitment period. 8% preferred return 20% carried interest	Total Value:	\$0.7 million



Investment Strategy:

Natural Resources Fund XII intends to make commitments of \$50 to \$200 million to 20 or more management teams intending to build new, upstream ("E&P") oil and gas companies. Fund XII expects more than half of the capital for the Fund to go toward teams it has successfully backed in prior funds. Fund XII also has the flexibility to invest up to 10% of its capital in midstream assets. Fund XII's portfolio companies have little to no debt, and portfolio-wide the leverage ratio is only expected to be 20%. Exits for companies in Fund XII may come through strategic sales, auctions, or the public markets.



Client Pension Fund

Mandate: Natural Resources

Active/Passive: Active

Market Value: \$21.9 million

Portfolio Manager: Mr. Y

Location: Tri-State Area

Inception Date: yyyy

Account Type: Separately Managed

Fee Schedule:
0.75% on all assets

Liquidity Constraints:
Daily

Strategy:
Natural Resources Fund III strategy focuses on equity investments in hard asset sectors including, but not limited to, energy, precious metals, base metals, forest and paper products, and agriculture. This strategy seeks to take advantage of global growth trends and the worldwide demand for raw materials.

Guidelines:
Max position size 10% of portfolio market value; max convertible securities 10%; Securities of foreign companies, including dollar and non-dollar denominated, as well as ADRs, ADSs, GDRs, GDSs, and other depository receipts and shares, may not comprise more than 50% of the portfolio's market value at the time of purchase; No more than 10% may be invested in passively managed exchange traded funds; Max REIT 10%; Max 20% in derivatives; no leverage and no currency hedging allowed.

Performance (%):	4Q11	1 YR	Since yyyy
Natural Resources Fund III Hard Assets	8.7	-15.7	9.1
S&P Global Natural Resources	7.8	-14.9	0.8

Natural Resources Fund III Portfolio Detail as of 12/31/11

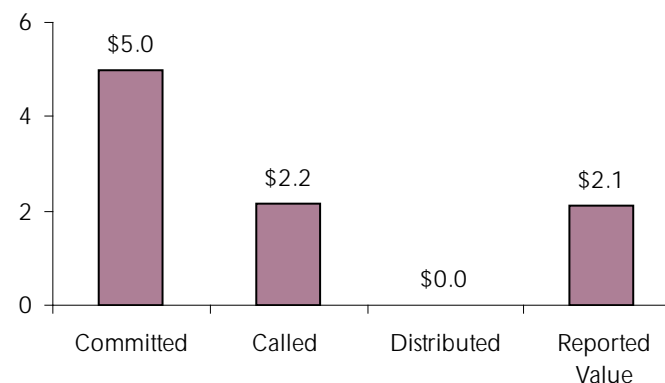
	12/31/11 Natural Resources Fund III	9/30/11 Natural Resources Fund III
Capitalization Structure:		
Weighted Average Market Cap. (US\$ billion)	23.8	20.7
Median Market Cap. (US\$ billion)	8.3	7.5
Large (% over US\$10 billion)	53	46
Medium (% US\$2 billion to US\$10 billion)	43	49
Small (% under US\$2 billion)	4	5
Fundamental Structure:		
Price-Earnings Ratio	17	19
Price-Book Value Ratio	2.1	2.0
Dividend Yield (%)	1.1	1.3
Historical Earnings Growth Rate (%)	9	10
Projected Earnings Growth Rate (%)	17	15
Sector Allocation (%):		
Energy	67	65
Materials	31	33
Industrials	2	2
Consumer Discretionary	0	0
Consumer Staples	0	0
Financials	0	0
Health Care	0	0
Information Technology	0	0
Telecom	0	0
Utilities	0	0
Diversification:		
Number of Holdings	64	65
% in 5 largest holdings	20	20
% in 10 largest holdings	34	35
Region Allocation (%):		
Europe/North America	99	98
Pacific Rim/Asia	0	0
Asia (emerging)	1	1
Latin America (emerging)	1	1
Europe/MidEast/Africa (emerging)	0	0
Largest Five Holdings:		
		Industry
Energy Company F	5.0	Energy
Materials Company D	4.2	Materials
Energy Company C	3.9	Energy
Energy Company B	3.6	Energy
Energy Company D	3.3	Energy



Client Pension Fund

Natural Resources Fund X Portfolio Detail as of 12/31/11

Strategy:	Natural Resources Harvested	Commitment:	\$5.0 million
Senior Professionals:	Mr. A	Capital Contributions:	\$2.2 million
Location:	Northeastern United States	Outstanding Commitment:	\$2.8 million
Vintage Year:	yyyy	Realized Proceeds:	\$0.0 million
Fee Schedule:	0.65% on uncalled and 1.1% on contributed capital; after investment period, 1.1% on lower of contributed capital adjusted for inflation or NAV 6% real preferred return Carried Interest: 5%-20%, depending on real IRR.	Total Value:	\$2.1 million



Investment Strategy:

Natural Resources Fund X is an employee-owned timberland manager based in Northeastern United States with six additional offices outside the U.S. Fund X will invest in plantation timberland properties outside of the U.S. Fund X will typically be the majority owner, investing between \$20 million and \$200 million in each property. The portfolio will comprise a mixture of immature, mature, even-aged, and afforestation investments, with an emphasis on early-stage opportunities. Fund X will invest at least 60% in the Oceania region, Latin America, and Central Eastern Europe. No more than 40% will be invested in frontier markets such as Africa, Asia, and Central America. Fund X will be diversified across a minimum of four investments, three species types, two continents, and three countries.



Cash Portfolio Review As of December 31, 2011

Client Pension Fund

Mandate: Cash Sweep
Active/Passive: Active
Market Value: \$23.3 million
Portfolio Manager: Jim Sarni, CFA
Location: Los Angeles, California
Inception Date: 6/1/1992
Account Type: Separately Managed

	Short	Int.	Long
High			
Medium			
Low			

Fee Schedule:
 0.20% on first \$50 mm; 0.175% on next \$50 mm; 0.125% on next \$50 mm; 0.10% on next \$50 mm

Liquidity Constraints:
 Daily

Strategy:
 Payden & Rygel manages the excess working cash of each of the other separate account managers in a "sweep" account. Their investment goal is to outperform the return of the custodian's STIF vehicle, net of fees.

Guidelines:
 NA

Performance (%):	4Q11	1 YR	3 YR	5 YR	Since 6/1/92
Payden Enhanced Cash	0.1	0.5	1.3	1.6	3.7
90-Day T-Bills	0.0	0.1	0.1	1.4	3.3
Risk: (sixty months)	Standard Deviation	Beta	Sharpe Measure	Info. Ratio	Correlation to Index
Payden Enhanced Cash	1.0%	0.00	0.13	0.13	0.30
90-Day T-Bills	0.5	1.00	0.00	NA	1.00

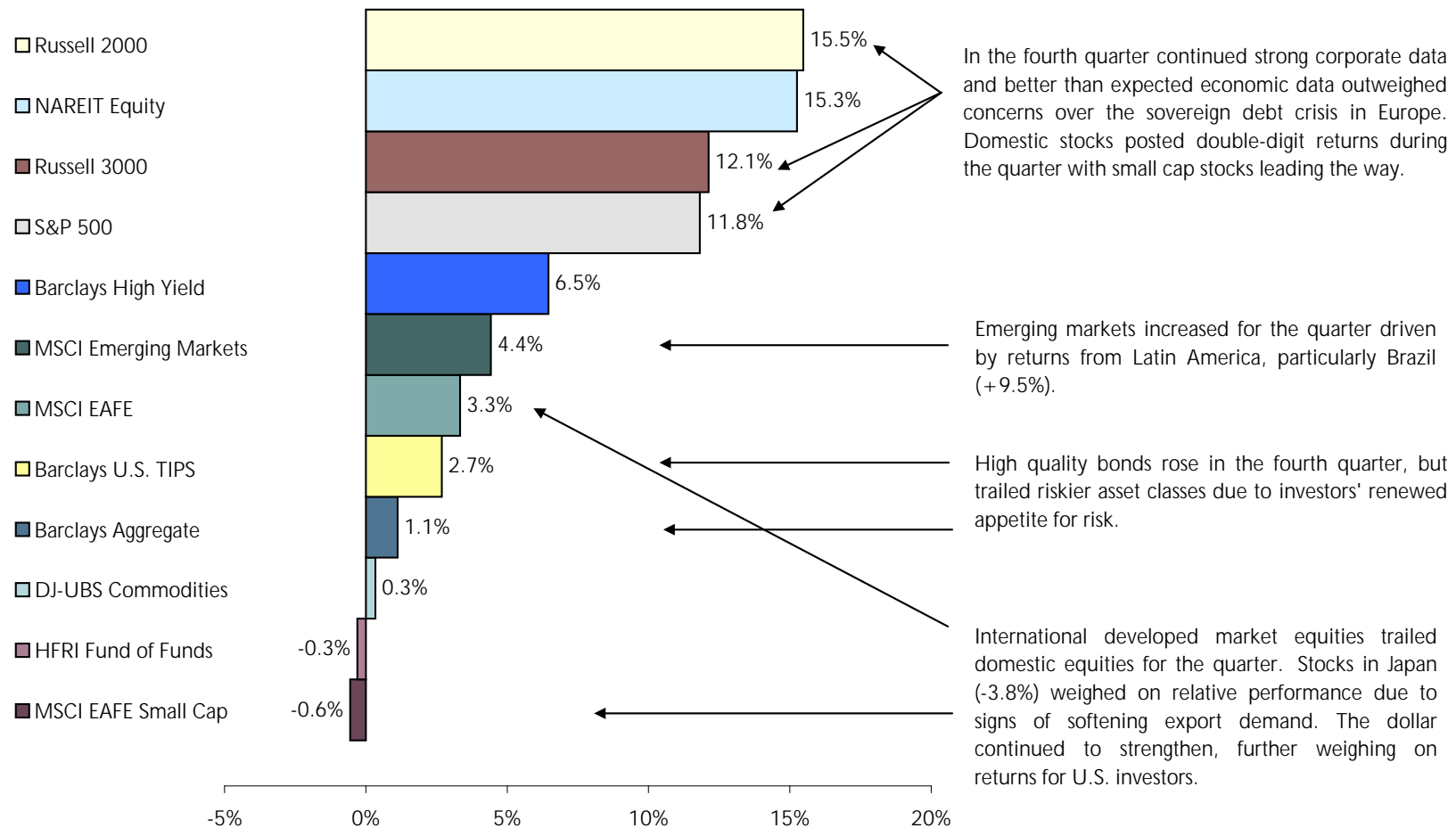
Payden Enhanced Cash Portfolio Detail as of 12/31/11

	12/31/11		9/30/11	
Duration & Yield:	Payden & Rygel	90-Day T-Bills	Payden & Rygel	90-Day T-Bills
Average Effective Duration (years)	0.6	0.2	0.7	0.2
Yield to Maturity (%)	0.8	0.1	0.5	0.3
Quality Structure (%):				
Average Quality	AA +	AAA	AA	AAA
AAA (includes Treasuries and Agencies)	66	100	12	100
AA	12	0	70	0
A	17	0	14	0
BBB	5	0	3	0
BB	0	0	0	0
B	0	0	0	0
Below B	0	0	0	0
Non-Rated	0	0	0	0
Sector Allocation (%):				
U.S. Treasury-Nominal	13	100	9	100
U.S. Treasury-TIPS	0	0	0	0
U.S. Agency	8	0	6	0
Mortgage Backed	12	0	8	0
Corporate	33	0	24	0
Bank Loans	0	0	0	0
Local & Provincial Government	0	0	0	0
Sovereign & Supranational	2	0	2	0
Commercial Mortgage Backed	0	0	0	0
Asset Backed	8	0	7	0
Cash Equivalent	24	0	44	0
Other	0	0	0	0
Market Allocation (%):				
United States	88	100	92	100
Foreign (developed markets)	12	0	8	0
Foreign (emerging markets)	0	0	0	0
Currency Allocation (%):				
Non-U.S. Dollar Exposure	0	0	0	0



Appendices

The World Markets Fourth Quarter of 2011

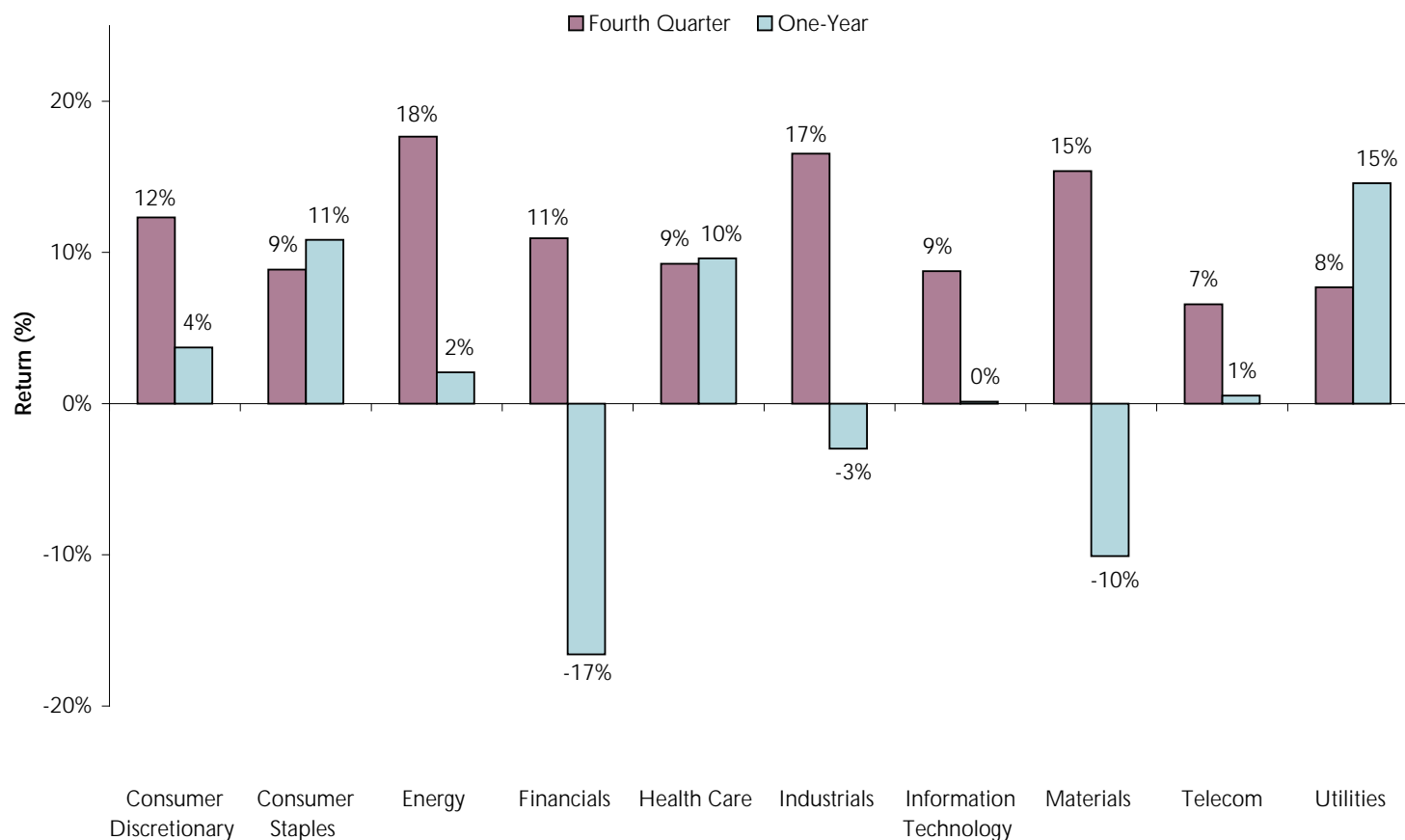
The World Markets
Fourth Quarter of 2011

Index Returns

	4Q11 (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)
Domestic Equity					
Russell 3000	12.1	1.0	14.9	0.0	3.5
Russell 1000	11.8	1.5	14.8	-0.2	3.3
Russell 1000 Growth	10.6	2.6	18.0	2.5	2.6
Russell 1000 Value	13.1	0.4	11.6	-2.6	3.9
Russell MidCap	12.3	-1.6	20.2	1.4	7.0
Russell MidCap Growth	11.2	-1.7	22.1	2.4	5.3
Russell MidCap Value	13.4	-1.4	18.2	0.0	7.7
Russell 2000	15.5	-4.2	15.6	0.2	5.6
Russell 2000 Growth	15.0	-2.9	19.0	2.1	4.5
Russell 2000 Value	16.0	-5.5	12.4	-1.9	6.4
Foreign Equity					
MSCI ACWI (ex. U.S.)	3.7	-13.7	10.7	-2.9	6.3
MSCI EAFE	3.3	-12.1	7.7	-4.7	4.7
MSCI EAFE Small Cap	-0.6	-15.9	14.6	-4.1	9.0
MSCI Emerging Markets	4.4	-18.4	20.1	2.4	13.9
Fixed Income					
Barclays Universal	1.5	7.4	7.7	6.4	6.0
Barclays Aggregate	1.1	7.8	6.8	6.5	5.8
Barclays U.S. TIPS	2.7	13.6	10.4	8.0	7.6
Barclays High Yield	6.5	5.0	24.1	7.5	8.9
JPMorgan GBI-EM Global Diversified	0.5	-1.8	11.5	9.2	NA
Other					
NAREIT Equity	15.3	8.3	21.0	-1.4	10.2
DJ-UBS Commodities	0.3	-13.4	6.3	-3.3	5.4
HFRI Fund of Funds	-0.3	-5.5	3.6	-0.7	3.3

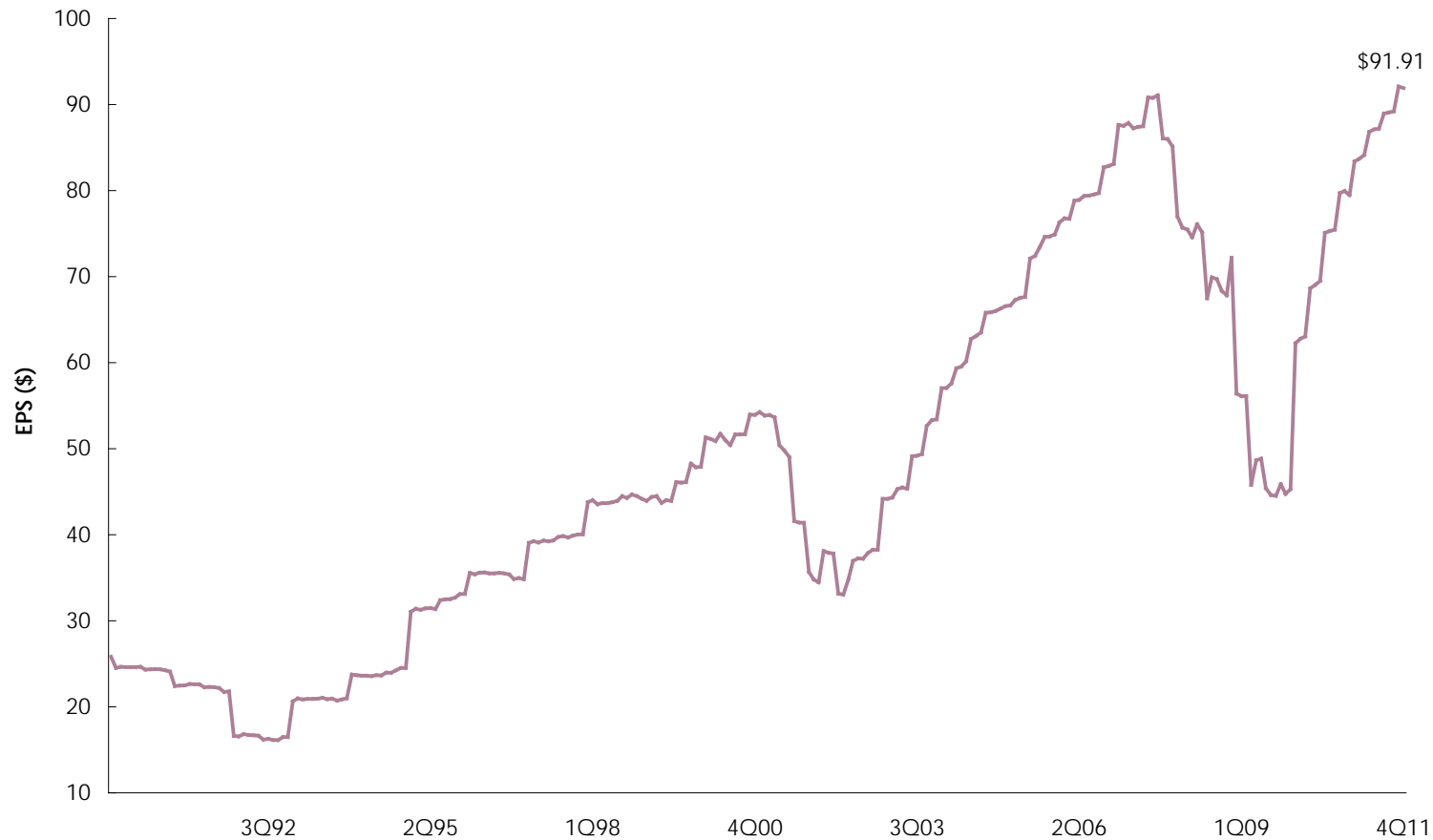
S&P Sector Returns

In a reversal of the third quarter, all ten sectors in the S&P 1500 posted gains, with the traditionally cyclical sectors leading the way. Energy (+18%) was the strongest performer as oil prices increased by close to \$20/barrel. For the trailing year, the majority of sectors posted positive returns, with utilities (+15%) posting the largest gain.



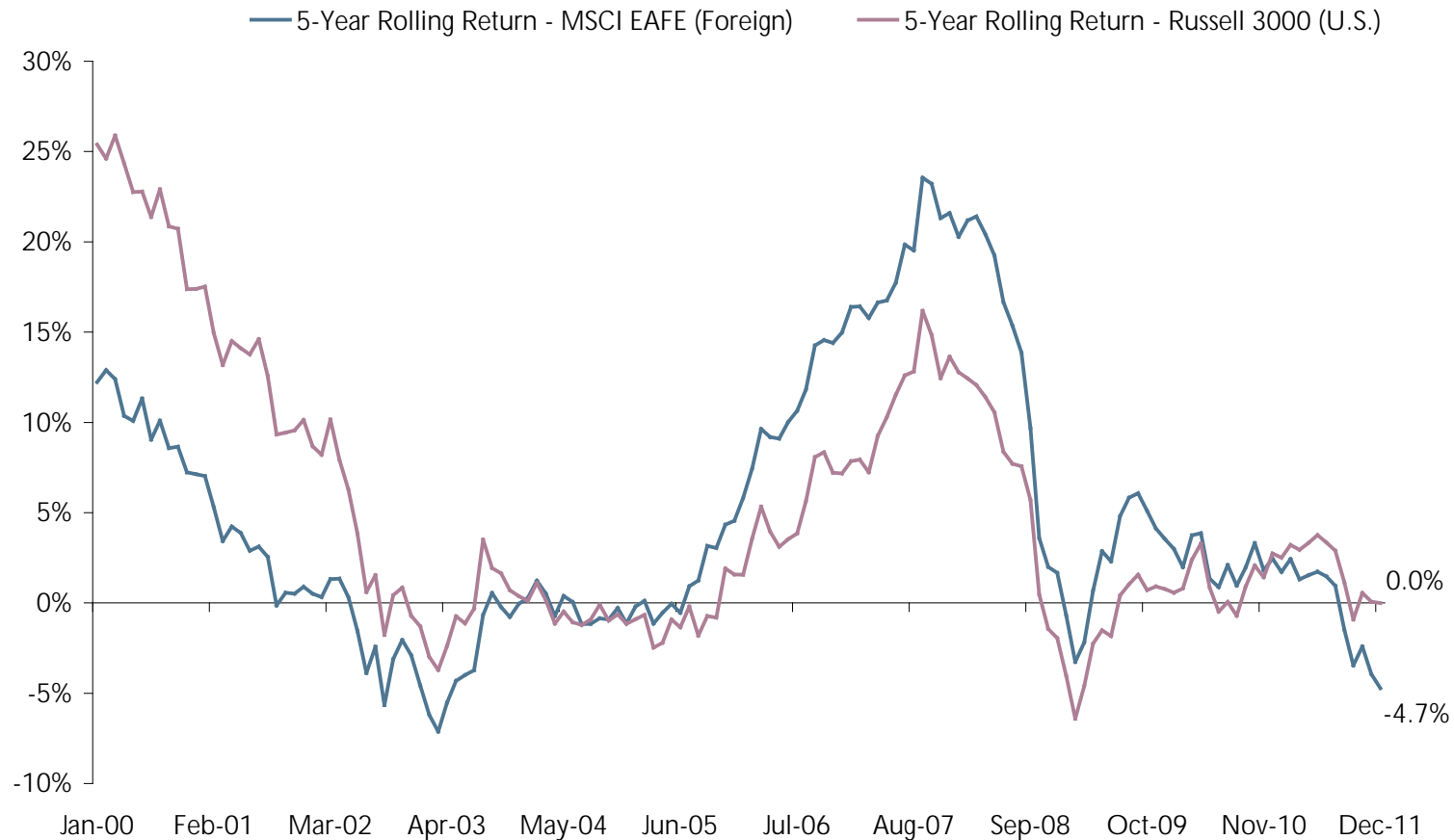
S&P 500 Earnings Per Share

In the fourth quarter, corporate profitability grew for the ninth straight quarter. S&P 500 trailing one-year earnings were \$91.91 as of quarter-end, a level above the previous highs reached in 2007.



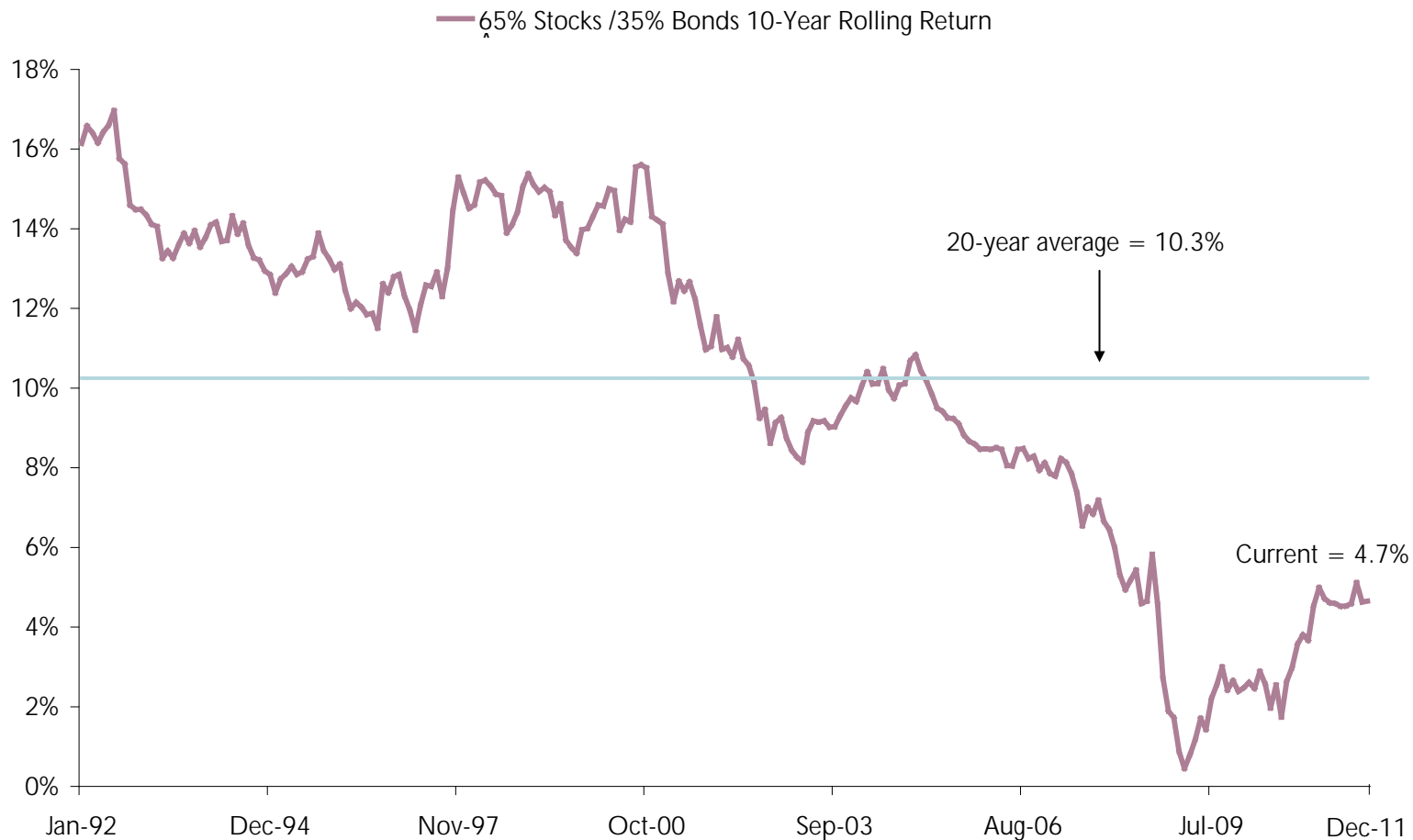
Equity Markets

In the fourth quarter, the domestic equity market (+12.1%) substantially outpaced international developed market equities (+3.3%), due in part to a strengthening U.S. dollar and continued sovereign debt concerns in the Euro-zone. The performance spread between domestic and international equities expanded an additional 2.1% during the quarter to 4.7% for the five-year period ending December 31.



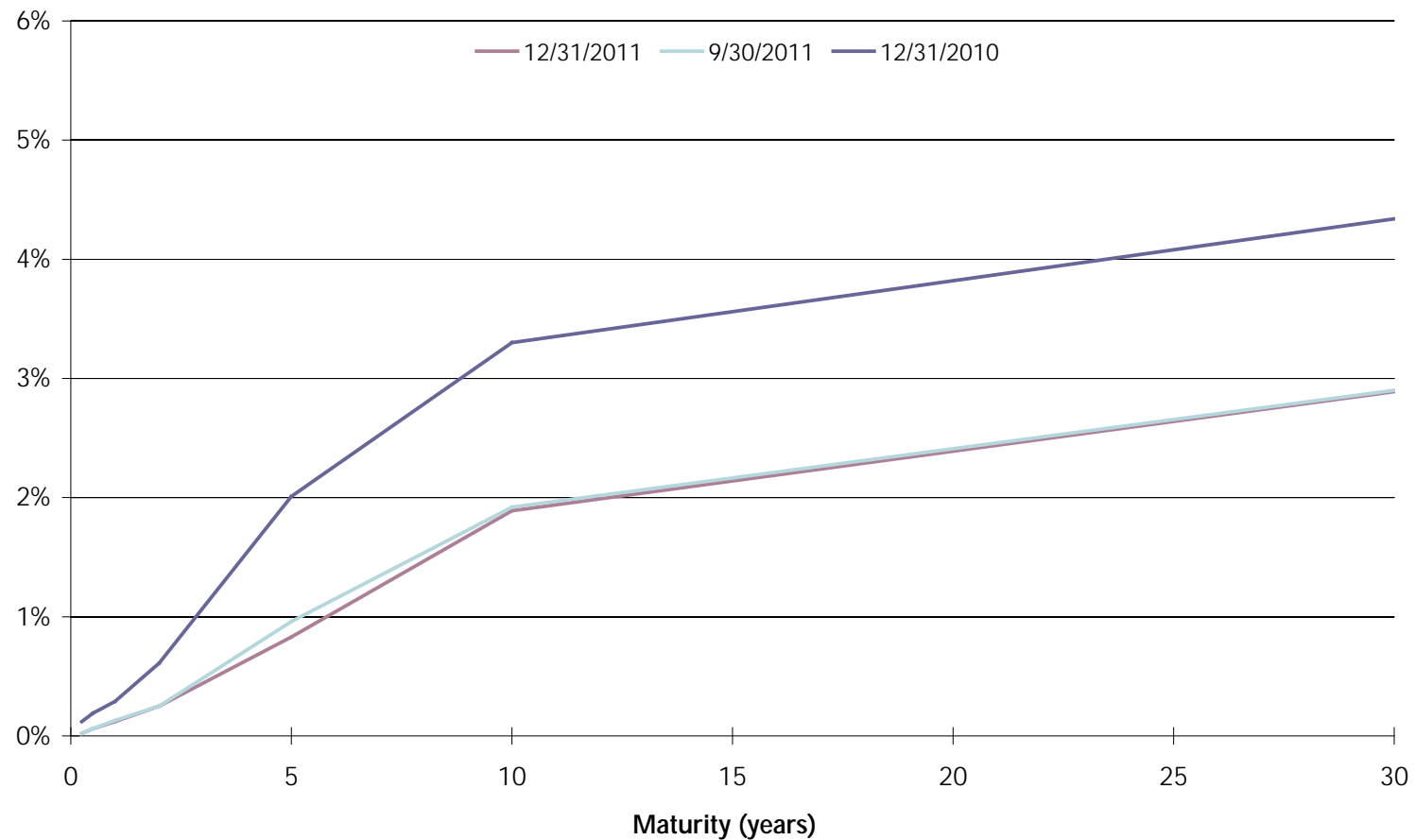
Rolling Ten-Year Returns: 65% Stocks and 35% Bonds

At year-end, the ten-year annual return of a portfolio comprised of 65% domestic stocks (Russell 3000) and 35% investment grade bonds (Barclays Aggregate) was 4.7%. Since February 2009, the portfolio's ten-year annual return increased by 4.3%, but remains less than half the twenty-year average.

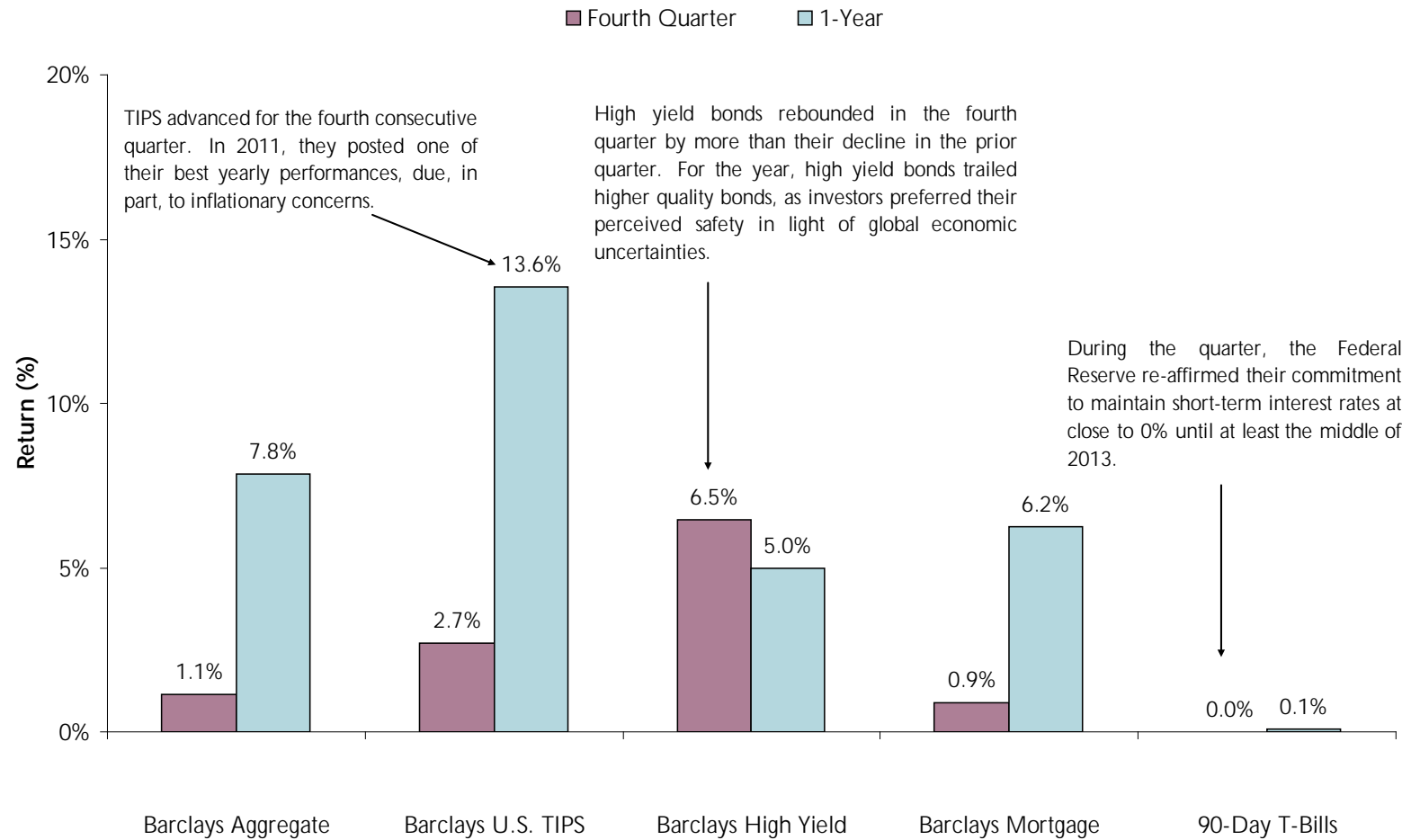


Treasury Yields

Treasury yields changed little during the fourth quarter, but declined dramatically from the end of 2010. The yield on the ten-year Treasury was 1.9% as of quarter-end, a level 1.4% lower than a year prior.

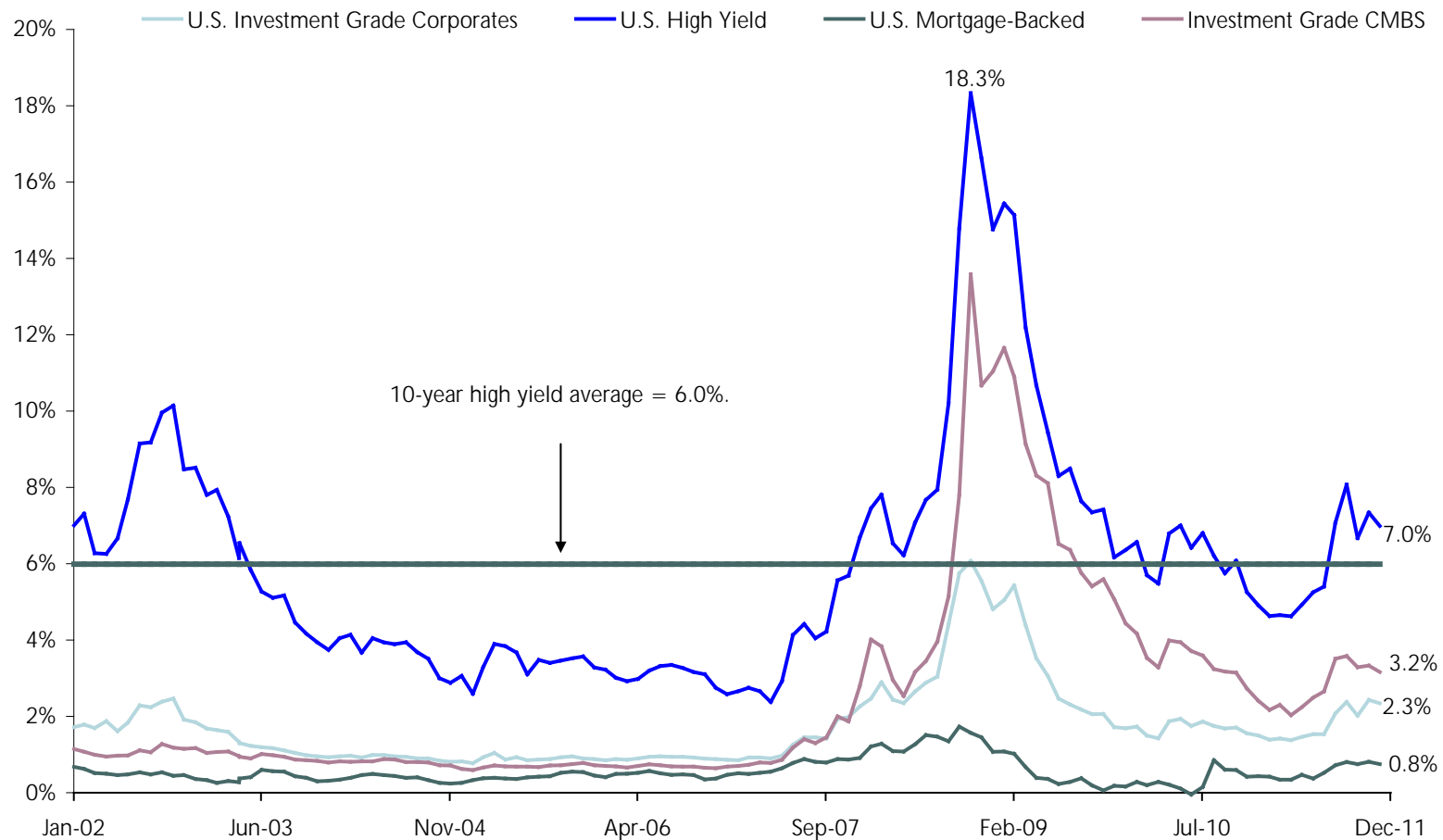


U.S. Fixed Income Markets



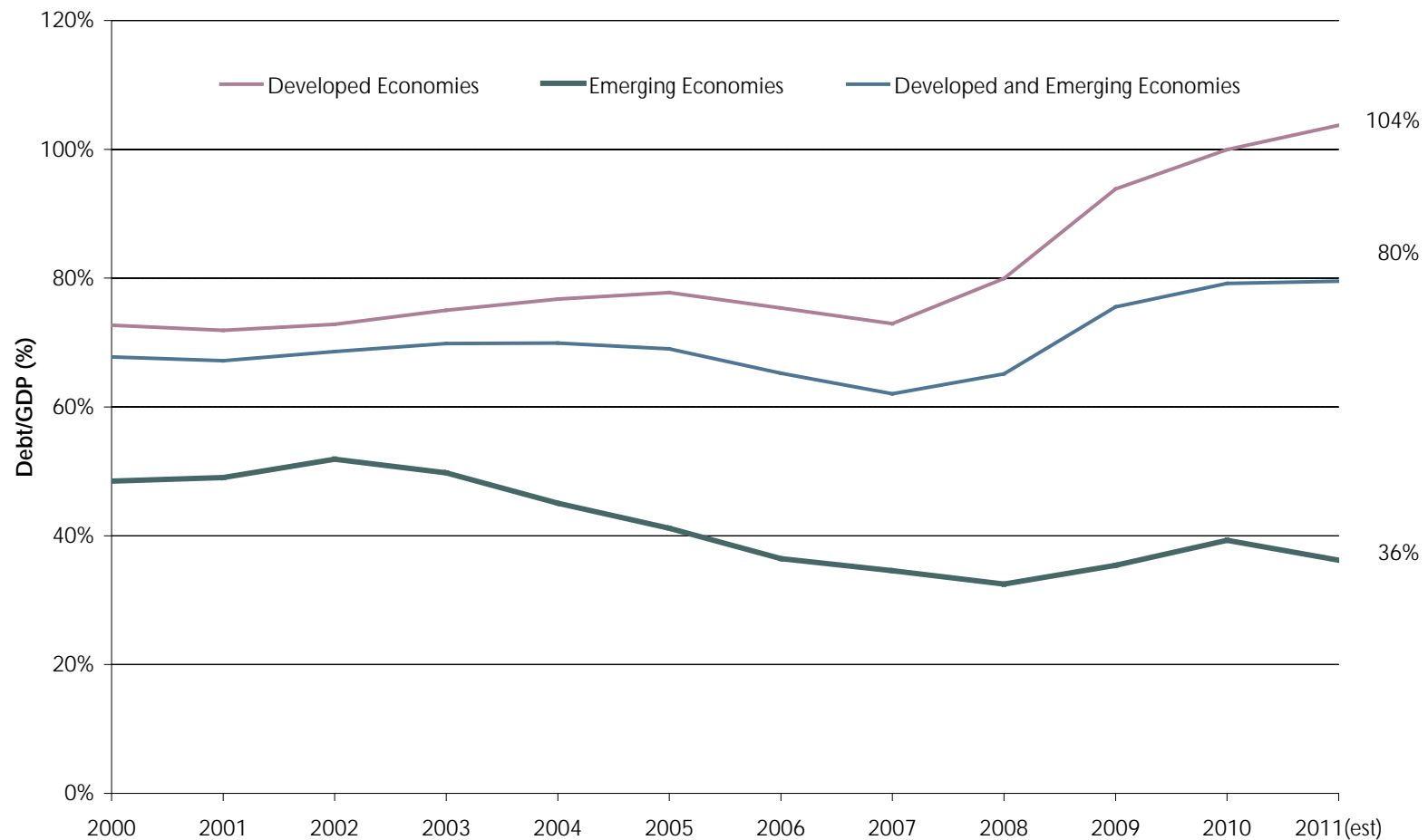
Credit Spreads vs. U.S. Treasury Bonds

In a reversal of the trend over the past two quarters, credit spreads compressed across all sectors. High yield spreads declined the most (-1.1%), to 7.0%, a level 1.0% above the ten-year average.



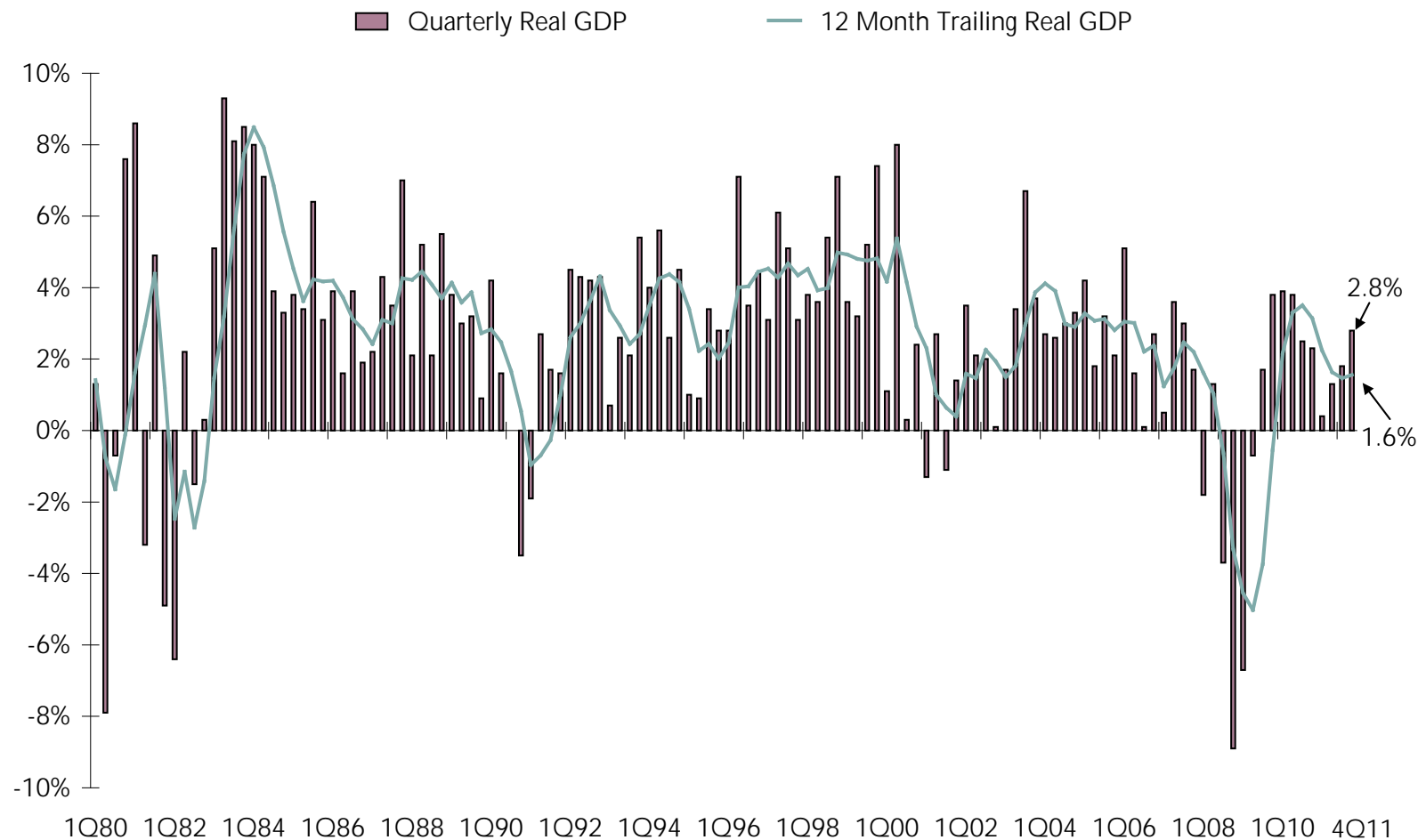
Sovereign Debt

While cumulative debt/GDP levels are below 40% for emerging markets, developed market levels are over 100%. Many economists believe that debt/GDP levels over 100% are unsustainable in the long term.



Real Gross Domestic Product (GDP) Growth¹

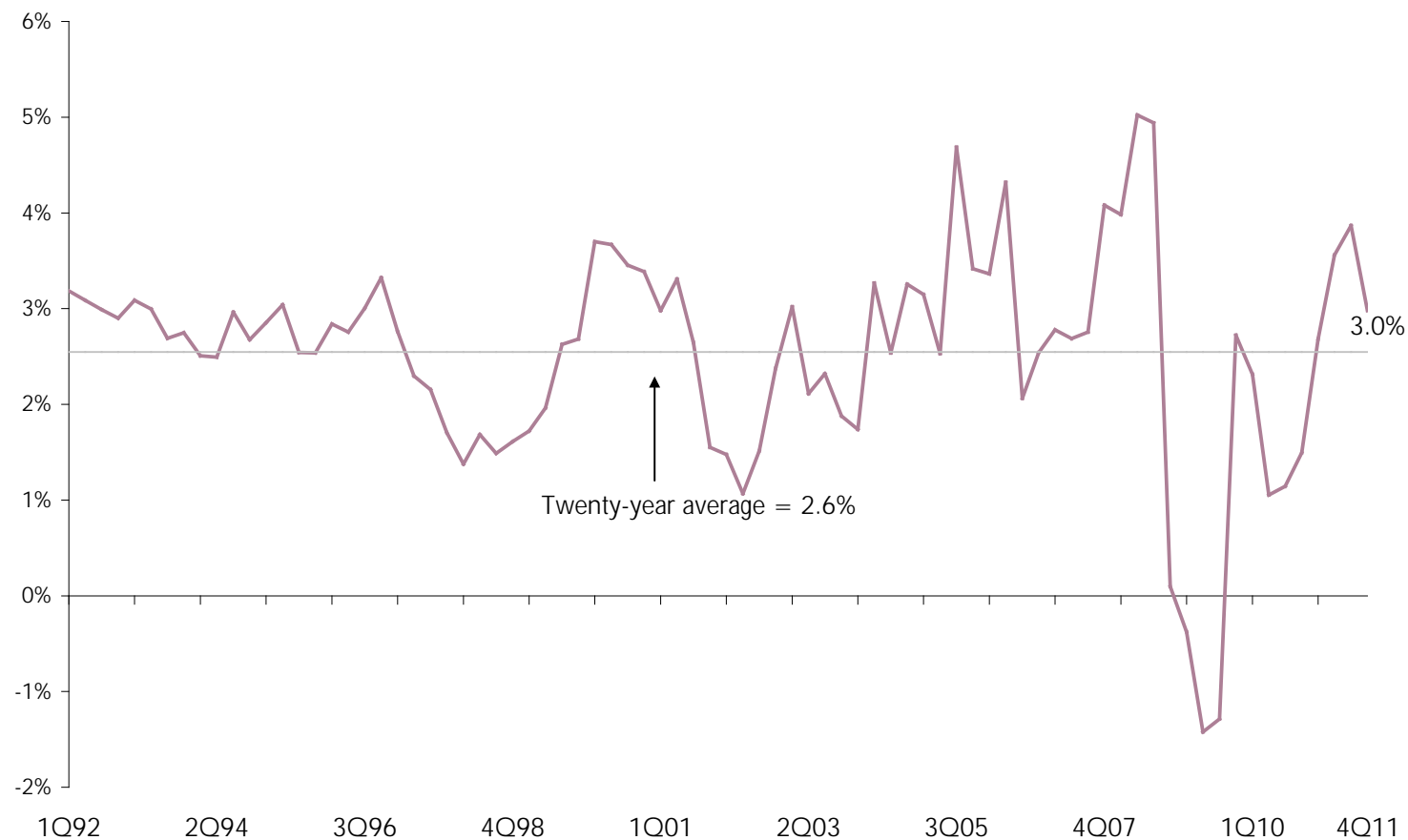
Real GDP growth increased for the third consecutive quarter, up 2.8% on an annualized basis. Companies restocking their inventories, a likely temporary phenomenon, drove growth in the fourth quarter.



¹ Quarterly data are annualized.

U.S. Inflation (CPI) Trailing Twelve Months¹

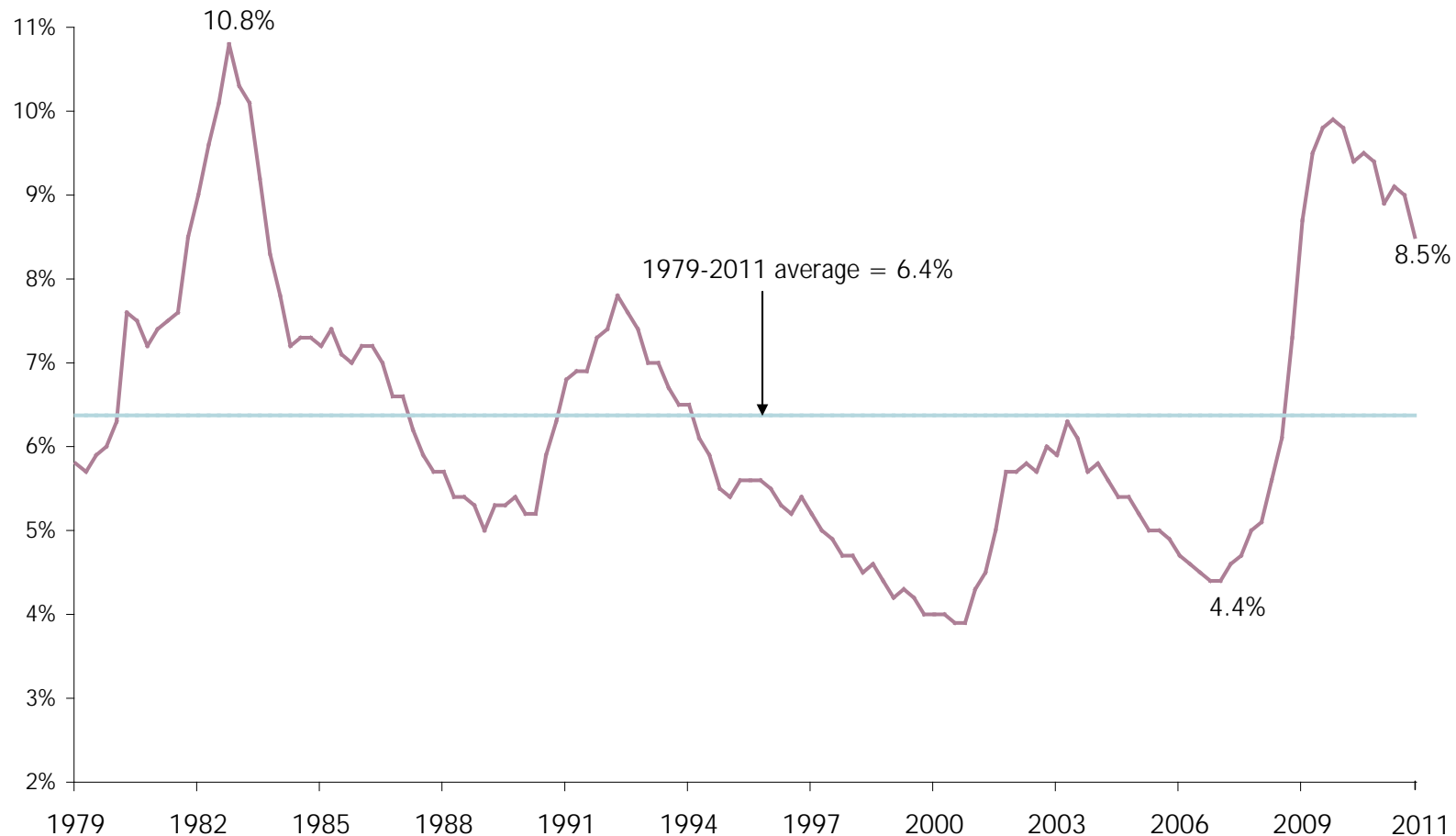
Driven by falling energy costs, the trailing twelve-month CPI growth rate eased to 3.0%.



¹ Data is non-seasonally adjusted CPI, which may be volatile in the short-term.

U.S. Unemployment

The unemployment rate declined 0.6% during the fourth quarter to 8.5%, due in part to seasonal hiring and a reduction in the labor force. Over 400,000 non-farm payroll jobs were added during the fourth quarter, with the trend of payroll growth in the private sector and payroll decline in the government sector continuing.



Disclaimer, Glossary, and Notes
As of December 31, 2011

The material contained in this report is confidential and may not be reproduced, disclosed, or distributed, in whole or in part, to any person or entity other than the intended recipient. The data are provided for informational purposes only, may not be complete, and cannot be relied upon for any purpose other than for discussion.

Meketa Investment Group has prepared this report on the basis of sources believed to be reliable. The data are based on matters as they are known as of the date of preparation of the report, and not as of any future date, and will not be updated or otherwise revised to reflect information that subsequently becomes available.

In general, the valuation numbers presented in this report are prepared by the custodian bank for listed securities, and by the fund manager or appropriate General Partner in the case of unlisted securities. The data used in the market comparison sections of this report are sourced from various databases. These data are continuously updated and are subject to change.

This report does not contain all the information necessary to fully evaluate the potential risks of any of the investments described herein. Because of inherent uncertainties involved in the valuations of investments that are not publicly traded, any estimated fair values shown in this report may differ significantly from the values that would have been used had a ready market for the underlying securities existed, and the differences could be material. Note that for unlisted securities the valuations may be lagged by one or more calendar quarters, or may reflect original cost.

This document may contain certain forward-looking statements, forecasts, estimates, projections, and opinions ("Forward Statements"). No representation is made or will be made that any Forward Statements will be achieved or will prove to be correct. A number of factors, in addition to any risk factors stated in this material, could cause actual future results to vary materially from the Forward Statements. No representation is given that the assumptions disclosed in this document upon which Forward Statements may be based are reasonable. There can be no assurance that the investment strategy or objective of any fund or investment will be achieved, or that the Fund will receive a return of the amount invested.

In some cases Meketa Investment Group assists the Trustees in handling capital calls or asset transfers among investment managers. In these cases we do not make any representations as to the managers' use of the funds, but do confirm that the capital called or transferred is within the amounts authorized by the Trustees.

Credit Risk: Refers to the risk that the issuer of a fixed income security may default (i.e., the issuer will be unable to make timely principal and/or interest payments on the security.)

Duration: Measure of the sensitivity of the price of a bond to a change in its yield to maturity. Duration summarizes, in a single number, the characteristics that cause bond prices to change in response to a change in interest rates. For example, the price of a bond with a duration of three years will rise by approximately 3% for each 1% decrease in its yield to maturity. Conversely, the price will decrease 3% for each 1% increase in the bond's yield. Price changes for two different bonds can be compared using duration. A bond with a duration of six years will exhibit twice the percentage price change of a bond with a three-year duration. The actual calculation of a bond's duration is somewhat complicated, but the idea behind the calculation is straightforward. The first step is to measure the time interval until receipt for each cash flow (coupon and principal payments) from a bond. The second step is to compute a weighted average of these time intervals. Each time interval is measured by the present value of that cash flow. This weighted average is the duration of the bond measured in years.

Information Ratio: This statistic is a measure of the consistency of a portfolio's performance relative to a benchmark. It is calculated by subtracting the benchmark return from the portfolio return (excess return), and dividing the resulting excess return by the standard deviation (volatility) of this excess return. A positive information ratio indicates outperformance versus the benchmark, and the higher the information ratio, the more consistent the outperformance.

Market Capitalization: For a firm, market capitalization is the total market value of outstanding common stock. For a portfolio, market capitalization is the sum of the capitalization of each company weighted by the ratio of holdings in that company to total portfolio holdings; thus it is a weighted-average capitalization. Meketa Investment Group considers the largest 65% of the broad domestic equity market as large capitalization, the next 25% of the market as medium capitalization, and the smallest 10% of stocks as small capitalization.

Market Weighted: Stocks in many indices are weighted based on the total market capitalization of the issue. Thus, the individual returns of higher market-capitalization issues will more heavily influence an index's return than the returns of the smaller market-capitalization issues in the index.

Maturity: The date on which a loan, bond, mortgage or other debt/security becomes due and is to be paid off.

Prepayment Risk: The risk that prepayments will increase (homeowners will prepay all or part of their mortgage) when mortgage interest rates decline; hence, investors' monies will be returned to them in a lower interest rate environment. Also, the risk that prepayments will slow down when mortgage interest rates rise; hence, investors will not have as much money as previously anticipated in a higher interest rate environment. A prepayment is any payment in excess of the scheduled mortgage payment.

Price-Book Value (P/B) Ratio: The current market price of a stock divided by its book value per share. Meketa Investment Group calculates P/B as the current price divided by Compustat's quarterly common equity. Common equity includes common stock, capital surplus, retained earnings, and treasury stock adjusted for both common and nonredeemable preferred stock. Similar to high P/E stocks, stocks with high P/B's tend to be riskier investments.

Price-Earnings (P/E) Ratio: A stock's market price divided by its current or estimated future earnings. Lower P/E ratios often characterize stocks in low growth or mature industries, stocks in groups that have fallen out of favor, or stocks of established blue chip companies with long records of stable earnings and regular dividends. Sometimes a company that has good fundamentals may be viewed unfavorably by the market if it is an industry that is temporarily out of favor. Or a business may have experienced financial problems causing investors to be skeptical about its future. Either of these situations would result in lower relative P/E ratios. Some stocks exhibit

above-average sales and earnings growth or expectations for above average growth. Consequently, investors are willing to pay more for these companies' earnings, which results in elevated P/E ratios. In other words, investors will pay more for shares of companies whose profits, in their opinion, are expected to increase faster than average. Because future events are in no way assured, high P/E stocks tend to be riskier and more volatile investments. Meketa Investment Group calculates P/E as the current price divided by the I/B/E/S consensus of twelve-month forecast earnings per share.

Quality Rating: The rank assigned a security by such rating services as Fitch, Moody's, and Standard & Poor's. The rating may be determined by such factors as (1) the likelihood of fulfillment of dividend, income, and principal payment of obligations; (2) the nature and provisions of the issue; and (3) the security's relative position in the event of liquidation of the company. Bonds assigned the top four grades (AAA, AA, A, BBB) are considered investment grade because they are eligible bank investments as determined by the controller of the currency.

Sharpe Ratio: A commonly used measure of risk-adjusted return. It is calculated by subtracting the risk free return (usually three-month Treasury bill) from the portfolio return and dividing the resulting excess return by the portfolio's total risk level (standard deviation). The result is a measure of return per unit of total risk taken. The higher the Sharpe ratio, the better the fund's historical risk adjusted performance.

Standard Deviation: A measure of the total risk of an asset or a portfolio. Standard deviation measures the dispersion of a set of numbers around a central point (e.g., the average return). If the standard deviation is small, the distribution is concentrated within a narrow range of values. For a normal distribution, about two thirds of the observations will fall within one standard deviation of the mean, and 95% of the observations will fall within two standard deviations of the mean.

STIF Account: Short-term investment fund at a custodian bank that invests in cash-equivalent instruments. It is generally used to safely invest the excess cash held by portfolio managers.

Style: The description of the type of approach and strategy utilized by an investment manager to manage funds. For example, the style for equities is determined by portfolio characteristics such as price-to-book value, price-to-earnings ratio, and dividend yield. Equity styles include growth, value, and core.

Yield to Maturity: The yield, or return, provided by a bond to its maturity date; determined by a mathematical process, usually requiring the use of a "basis book." For example, a 5% bond pays \$5 a year interest on each \$100 par value. To figure its current yield, divide \$5 by \$95—the market price of the bond—and you get 5.26%. Assume that the same bond is due to mature in five years. On the maturity date, the issuer is pledged to pay \$100 for the bond that can be bought now for \$95. In other words, the bond is selling at a discount of 5% below par value. To figure yield to maturity, a simple and approximate method is to divide 5% by the five years to maturity, which equals 1% pro rata yearly. Add that 1% to the 5.26% current yield, and the yield to maturity is roughly 6.26%.

$$\frac{5\% \text{ (discount)}}{5 \text{ (yrs. to maturity)}} = 1\% \text{ pro rata, plus } 5.26\% \text{ (current yield)} = 6.26\% \text{ (yield to maturity)}$$

Sources: [Investment Terminology](#), International Foundation of Employee Benefit Plans, 1999.
[The Handbook of Fixed Income Securities](#), Fabozzi, Frank J., 1991.

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Throughout this report, numbers may not sum due to rounding.

Returns for periods greater than one year are annualized throughout this report.

Values shown are in millions of dollars, unless noted otherwise.

Executive Summary
As of December 31, 2011

In the fourth quarter, investors returned to risk assets due partly to improved economic data and hopes of a resolution to the sovereign debt issues in the Euro-zone.

- Real GDP growth in the U.S. was 2.8% in the fourth quarter, 1.0% above the level of the prior quarter. Continued slow growth is projected in 2012 with GDP estimates between 1.0% and 2.0%, according to the International Monetary Fund.
- In October, the Federal Reserve began their “Operation Twist” program designed to stimulate growth by further reducing long-term borrowing rates.
- The U.S. unemployment rate declined 0.6% during the fourth quarter, to 8.5%. Total nonfarm payrolls increased by 412,000 during the quarter, led by the private sector, while government sector employment was down slightly.
- In late December, the European Central Bank (ECB) announced it would make \$628 billion in liquidity available to 500 banks across Europe, through three-year loans.

Global equity markets rallied after the third quarter selloff, as strong corporate and better than expected economic data outweighed concerns over the sovereign debt crisis in the Euro-zone.

- Continued sovereign debt concerns in Europe, a weak quarter in Japan (-3.8%), and a strengthening U.S. dollar weighed on international equities. The domestic equity market, as proxied by the Russell 3000 index, rose 12.1%, while the developed international equity market, as proxied by the MSCI EAFE index, gained 3.3%.
- Emerging markets equities (+4.4%) outpaced developed international equities (+3.3%); however, they ended a volatile year down 18.4%.

Spread sectors outperformed government bonds due to investors’ renewed appetite for risk.

- The Barclays high yield index led fixed income markets during the quarter, returning 6.5%, compared to 2.7% and 1.1% for the Barclays TIPS and Aggregate indices, respectively.

The Pension Fund's total market value was \$1.57 billion as of December 31, 2011, up from \$1.51 billion at the end of the last quarter.

- The Fund returned 5.1% during the fourth quarter and 2.6% for the calendar year.
- All asset classes experienced positive returns during the quarter. Domestic equities were extremely strong gaining 10.2% during the quarter.
- All asset classes were within their respective target ranges on September 30 with the exception of real estate and private equity. Private equity comprised 14% of the portfolio versus a target of 10% and real estate comprised 4% of the Fund versus a target of 10%.
- The Pension Fund paid out \$13.5 million in benefits during the fourth quarter.

Domestic Equity

- The newly added Rhumblin QSI portfolio performed as expected, providing some downside protection. Since August the portfolio had a return of 1.4% versus a -2.8% return for the Russell 3000 Index.
- NorthPointe had an extremely weak year, returning -20.4% versus -2.9% for the Russell 2000 Growth. The portfolio was hurt by its holdings in the industrial and energy sectors.

International Equity

- Vontobel returned 1.4% for the calendar year, outperforming the MSCI EAFE Index by 13.5%. The portfolio's consumer staple exposure as well positions in the U.K. and France led to the strong performance. An underweight position in Financials was also beneficial.

Fixed Income

- Inflation protected securities experienced very strong returns in 2012. The JP Morgan Safety Reserve portfolio gained 13.3% during the year, despite negative real yields.

Natural Resources

- Natural Resources Fund V returned 1.6% over the past year, compared to a 12 month return of -13.4% for the Dow Jones UBS Commodities Index. Fund V's ability to short commodities in downward trending markets enabled them to significantly outperform.

APPENDIX F

MEKETA INVESTMENT GROUP

SAMPLE MANAGER DUE DILIGENCE REPORT



M E K E T A I N V E S T M E N T G R O U P

B O S T O N

M I A M I

S A N D I E G O

MEKETA INVESTMENT GROUP

PUBLIC MARKETS MANAGER ANALYSIS

SMALL CAP CORE

APRIL 2012

*Portions of this document have been redacted
to ensure the security of certain confidential
or sensitive information.*



Firm: Manager A	Manager Rating:	4
New England, United States		
		Patrick White /
	MIG Analyst:	Mitch Dynan
Primary Contact: Mr. A	Date:	8.2.11
xxx-xxx-xxxx		
xxx@xxx.com	Original or Update:	Original
Product: Small Cap Core		
	Factor Ratings Summary	
Portfolio Manager: Mr. B	Organization:	3
	Investment Team:	4
Strategy Synopsis: Small Cap Core	Investment Philosophy	5
	Investment Process:	5
Clients: None	Performance:	4
	Fees:	4
	Overall Manager Rating:	4

Executive Summary & Conclusions

- Manager A is a strong option in the Small Cap Core space and should be included in future searches. All three investors came across as articulate, intelligent, and experienced. They are all very passionate about the investment industry and are deeply involved in the research process. Mr. B, the portfolio manager, has managed the strategy using the same philosophy for over 10 years. His core approach blends both value and growth names. Mr. B and Mr. C have worked together for years, an obvious plus. Due diligence is extremely thorough and on par with any of the managers we have come across. Performance has been consistently strong over a long period of time.
- The only concern I have with regards to this offering is the size of the team and the universe they cover. The four full-time investment professionals cover Micro, Small, and Midcap, a considerable amount of names. One could make the argument that the team may be missing ideas and along with that, an opportunity cost. This is mitigated by the experience of the four investment professionals and the low turnover of the products. Small cap turnover is low and requires about 15-20 names/year, a manageable number for the team.

Rating Scale: 5-Excellent, 4-Good, 3-Average, 2-Below Average, 1-Weak. The information, assessments and conclusions contained in this document are the sole opinion of the author, and may not be wholly accurate or complete. Further, this document may be revised, corrected or updated at any time. This document has been prepared for internal discussion purposes only, and does not reflect the recommendation or opinion of Meketa Investment Group.

Meketa Investment Group Public Markets Manager Analysis

Important Risks

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- There are no major risks.
- A minor concern is the asset gathering mentality accompanied by all large organizations such as Manager A, which is mitigated by the boutique structure. The team largely controls all major decisions such as capacity.
- To a lesser extent there is a risk that Manager A decides these funds are too small and sells them off.
- The relatively small team is also a minor concern. This is mitigated by the experience of the team and the tenure which Mr. B has run the strategy.

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Meketa Investment Group Public Markets Manager Analysis

Organization

Factor Rating: 3

- Manager A had over \$200B in AUM as of 3/31/11, of which about \$40B is in U.S.-based institutional accounts. The remainder is in Canadian-based institutional and retail. The parent is a relatively strong bank with AA- S&P rating.
- The asset management business uses a boutique structure with teams based in the Northern U.S. (U.S. headquarters), New England, and the Central United States. The large cap value team, who I have met with, is also based in New England.
- Manager A's appeal to Mr. B is the boutique structure. He has investment independence and receives marketing and organization support from Manager A. Mr. B's compensation is base salary plus a bonus based on performance. He also "owns" his P&L and receives a profit share. The profit split varies between 50/50 and 75/25 depending on the level of profitability.
- Mr. C, one of the members of the team, also manages a mid cap value strategy with AUM of over \$100M. Mr. C brought the strategy from Manager B, where both he and Mr. B had worked, and has managed it since yyyy. The team does not seem large enough to compete in mid cap, though Mr. C's performance is very impressive.
- Manager B was acquired by Manager C to bring in equity capabilities as well as provide a growth platform. In the late yyyy's, Manager C became very reactive to the market and forced Manager B to launch growth products and absolute return vehicles which did not blend well with the culture of the firm. (This highlights the pitfalls of working for an insurance company with an asset gathering mentality that is not run by investment professionals.) Performance was disappointing and eventually Manager A purchased the mutual funds run by Mr. C and Mr. B. Manager B had been a sub-advisor to the Manager A product, which made the transition more palatable to the larger organization. Mr. B and Mr. C could have started their own firm, but had no interest in all the activities involved in marketing or administration. They both really wanted to focus on investment research, picking stocks, and managing portfolios.
- Currently, the team runs over \$350 million in Small Cap Core, over \$200 million in Midcap Value, and over \$200 million in microcap, plus an additional \$50 million in microcap concentrated for two institutional clients. Mr. B indicated that the team would run a concentrated Small Cap product.
- **Micro Cap Core** = over \$200MM total (all mutual fund)

Rating Scale: 5-Excellent, 4-Good, 3-Average, 2-Below Average, 1-Weak. The information, assessments and conclusions contained in this document are the sole opinion of the author, and may not be wholly accurate or complete. Further, this document may be revised, corrected or updated at any time. This document has been prepared for internal discussion purposes only, and does not reflect the recommendation or opinion of Meketa Investment Group.

Meketa Investment Group Public Markets Manager Analysis

Organization

Factor Rating: 3

- **Small Cap Core** = over \$300MM total (over \$120MM in Manager A mutual fund; over \$150MM in Institutional. Additionally, since 6/30 we have won an additional \$25MM for separate accounts that is not included here.)
- **Mid Cap Value** = over \$150MM total (over \$120MM in PH&N mutual fund - available only in Canada; over \$2MM in Manager A mutual fund; over \$20MM in separate accounts. Additionally, Manager A was just awarded over \$50MM mandate that will fund on yyyy).

Rating Scale: 5-Excellent, 4-Good, 3-Average, 2-Below Average, 1-Weak. The information, assessments and conclusions contained in this document are the sole opinion of the author, and may not be wholly accurate or complete. Further, this document may be revised, corrected or updated at any time. This document has been prepared for internal discussion purposes only, and does not reflect the recommendation or opinion of Meketa Investment Group.

Meketa Investment Group Public Markets Manager Analysis

Investment Team

Factor Rating: 4

- The team consists of 3 PMs, who are also analysts, 2 consultants, and one dedicated trader. They are all very experienced, and have impressive work and academic credentials. Everyone on the investment team worked together at Manager B. I like the diverse backgrounds of the team and how they leverage the expertise of the consultants.
- Manager B manages the small cap and micro strategies, and provides analytical support to mid cap. He has managed the small cap portfolio for 20 years. His coverage is broad, but he focuses on the consumer, industrial, and financial services sectors. He and Mr. C were lifted out of Manager B and joined Manager A in yyyy. Mr. B was head of Manager B's small/mid cap value team. He worked in the industry prior to joining Manager B in yyyy. AB University A/MBA University B.
- Mr. C has managed the mid cap value strategy for a dozen years. He joined Manager A in yyyy with Mr. C from Manager B. He also started at Manager B in yyyy and previously worked in strategy consulting, M&A, and investment banking. BA University C/MBA University D.
- Mr. D is the third member of the team and serves as the research analyst for the 3 strategies. Mr. B recruited him from Manager D where he was an equity analyst. The two had worked together at Manager B. He has been in the investment business since yyyy. He has also founded two companies. He holds a number of patents and is, according to Mr. B, very good at evaluating the operations of a company. Mr. D is based in the Southern United States, but comes to New England one week a month and spends the summer here. BA University E.
- Mr. E, a former full-time consultant, agreed to become the fourth full-time member of the team as of October 1. He is a former CPA, former CFO, and consultant with 30 years experience. He does a lot of on-site visits for the team and "has been extremely valuable."
- The one consultant is under exclusive contract and has been working for 5 years. Each is used the equivalent of one day/week. He is an MD and emergency room surgeon. He has been very useful in health care research and has also used his network to generate ideas. He must comply with all Manager A compliance rules and trading policies. It seems like he has been very valuable in doing on-site visits and grass roots research.

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Meketa Investment Group Public Markets Manager Analysis

Investment Philosophy & Strategy

Factor Rating: 5

- I would characterize Mr. B as a core investor. He owns companies that are both value (relative) and growth and has a higher quality focus.
- His core belief is that earnings and cash flow drive stock prices over the long-term. Mr. B is more earnings oriented, while Mr. C is more focused on DCFs. They do think about ROIC and believe that a company's ROIC needs to exceed its cost of capital in order to be a good investment. Rising ROIC correlates with favorable stock price performance, while deteriorating ROIC is cause for concern, especially when a company diversifies out of its core area. He also believes in mean reversion with respect to a company's margins and valuation.
- Mr. B is looking for under-followed or neglected companies with long-term attractive business fundamentals, near-term profitability improvement potential and low valuations at time of purchase. Attributes he looks for are companies with proven products or services market leadership (prefers to buy the #1 company in a market, but if he owns #2 or #3, he wants the company to be gaining share), sustainable competitive advantage and strong finances. He prefers companies with low debt, but will accept higher debt if demand for the company's products is stable.

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Meketa Investment Group Public Markets Manager Analysis

Investment Process

Factor Rating: 5

- The process is straightforward. Companies within the market cap range of the Manager E are candidates, but new purchases are concentrated in companies with market caps between \$200M and \$1B. 80% of ideas come from their “intelligence pool,” that is company meetings, industry contacts and the knowledge of the team. A minority of the ideas come from quantitative screens using low P/S, P/CF, P/B and P/E, strong balance sheets, potential earnings acceleration, and low institutional ownership/high insider ownership.
- Mr. B claims they meet with 1K companies per year. When I raised an eyebrow that that seemed like a very high number for such a small group, he stood by his claim. He recently returned from a conference where he saw 40 companies in a week and had 15 one-on-one’s. They see an average of 1 or 2 companies in their offices each day. Given his tenure in the business, he has developed long-term relationships with a number of management teams. This is a positive. Following companies for an extended period of time is a competitive advantage.
- One person on the team researches each new idea. Due diligence is in-depth and they leverage the two consultants. If it is important to do so, they will do on-site visits. For an industrial company, a visit is more important than for an insurance company. Meeting with management is “absolutely important.”
- The primary analyst will present the idea to the group and everyone will provide their viewpoint. Mr. B makes the final decision.
- Mr. B’s investment horizon is 3 to 5 years during which time he would like the stock price to have the potential to double. He thinks in terms of risk and reward. Mr. B wants the catalyst to materialize within 2 to 3 quarters and wants some visibility on that catalyst when he starts the position. He typically does not get in at the bottom. He ends up owning a lot of growth cyclicals. About 20% of the portfolio consists of steady growers with a high percentage of recurring revenue. Turnover is low, typically 25% to 30%.
- Mr. B is benchmark aware, but the portfolio deviates significantly from the benchmark. The portfolio is currently 10 percentage points underweight in Financials and 10 percentage points overweight in Industrials.
- Positions are started at 75 to 100 bp. The largest holdings are just under 4%. The portfolio is 98% bottom-up driven, but they do think about the macro environment and ask themselves if they are comfortable with the overall positioning of the portfolio.

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Meketa Investment Group Public Markets Manager Analysis

Investment Process

Factor Rating: 5

- The number of portfolio holdings is between 50 and 80, 75 currently.
- The current portfolio is skewed toward economically sensitive companies.

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Meketa Investment Group Public Markets Manager Analysis

Performance

Factor Rating: 4

- Excess return ranks: 1 year = 24th percentile, 3 year = 14th percentile, 5 year = 22nd percentile. 2002 and 2009 were standout years for the strategy. 2005 and 1999 were laggards.
- Information Ratio ranks within the entire Small Cap equity manager universe: 3 year = 6th percentile, 7 year = 25th percentile, 10 year = 24th percentile.
- Attribution presented over the last 5 years verifies what Mr. B had communicated with us, namely consistent results with very few homeruns or blowups. On an annual basis there are nearly no stocks that either positively or negatively impact results more than 150 bps. Stock picking in Industrials has been quite strong with few other standouts either way. As one would expect, just over 2/3 of excess returns can be attributed to stock selection.
- Mr. B has been running this strategy since yyyy. The results here are gross returns from the mutual fund.

	Manager A	Manager E	Excess
yyyy	18.1%	-3.0%	21.1%
yyyy	7.5%	21.3%	-13.8%
yyyy	-3.1%	-2.5%	-0.6%
yyyy	35.0%	22.4%	12.6%
yyyy	29.4%	16.5%	12.9%
yyyy	21.6%	28.4%	-6.8%
yyyy	-6.0%	-1.8%	-4.2%
yyyy	21.4%	18.9%	2.5%
yyyy	18.8%	18.4%	0.4%
yyyy	5.8%	6.6%	-0.8%

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Meketa Investment Group Public Markets Manager Analysis

Performance

Factor Rating: 4

- Performance presented here is from Evestment and represents gross returns from the separate account.

	MRQ	YTD	1 Yr	3 Yr	5 Yr	7 Yr	10 Yr	SI
Manager A	-0.66	9.38	44.23	13.24	7.58	8.65	9.56	12.29
Russell 2000	-1.61	6.21	37.41	7.77	4.08	6.28	6.27	9.51
Excess	0.95	3.18	6.82	5.47	3.49	2.37	3.3	2.78

	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
Manager A	31.64	35.42	-30.98	-1.49	21.81	-1.34	20.89	45.72	-8.78	4.07
Russell 2000	26.85	27.17	-33.79	-1.57	18.37	4.55	18.33	47.25	-20.48	2.49
Excess Returns	4.79	8.25	2.8	0.07	3.44	-5.9	2.56	-1.53	11.7	1.58

Risk/Regression	1 Yr	3 Yr	5 Yr	7 Yr	10 Yr	SI
Standard Deviation	20.71	27.95	23.09	20.85	19.73	17.33
Annualized Alpha	1.44	5.09	3.42	2.41	3.64	4.51
Beta	1.12	1.01	1	0.98	0.91	0.8
Correlation Coefficient (r)	0.99	0.99	0.98	0.98	0.96	0.88

Efficiency Measures	1 Yr	3 Yr	5 Yr	7 Yr	10 Yr	SI
Tracking Error	3.87	3.96	4.03	4.3	5.79	9.03
Information Ratio	1.76	1.38	0.87	0.55	0.57	0.31
Sharpe Ratio	2.13	0.46	0.25	0.31	0.38	0.51
Upside Market Capture	117.33	110.72	105.43	99.29	95.56	84.2
Upside Market Return	109.52	107.82	73.17	67.97	67.15	55.15
Downside Market Capture	103.44	97.25	95.65	93.19	87.92	76.49
Downside Market Return	-31.65	-61.32	-52.73	-44.59	-41.86	-34.01

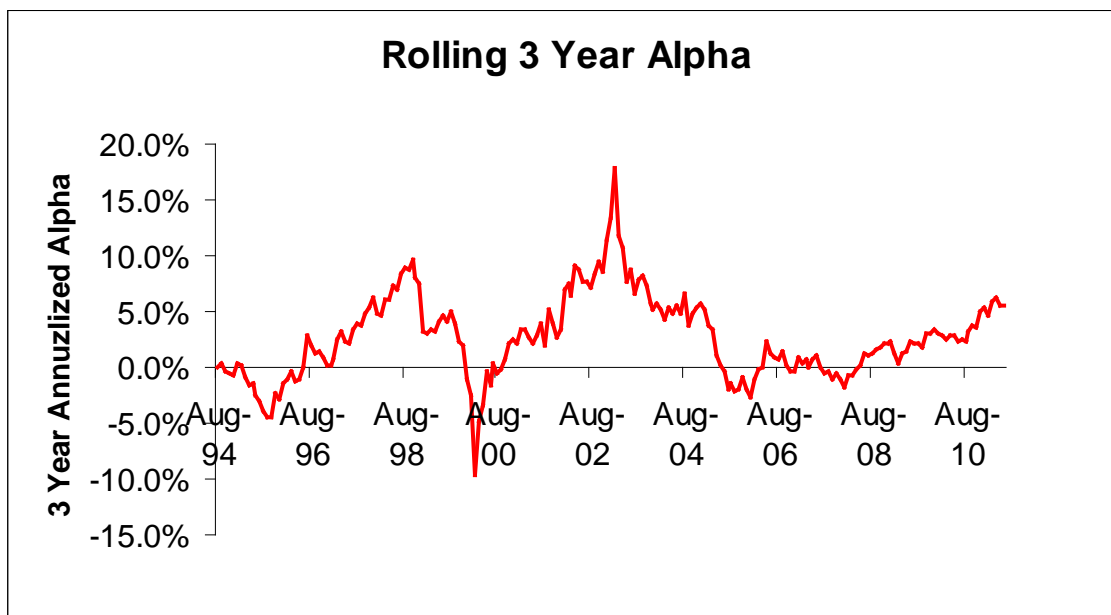
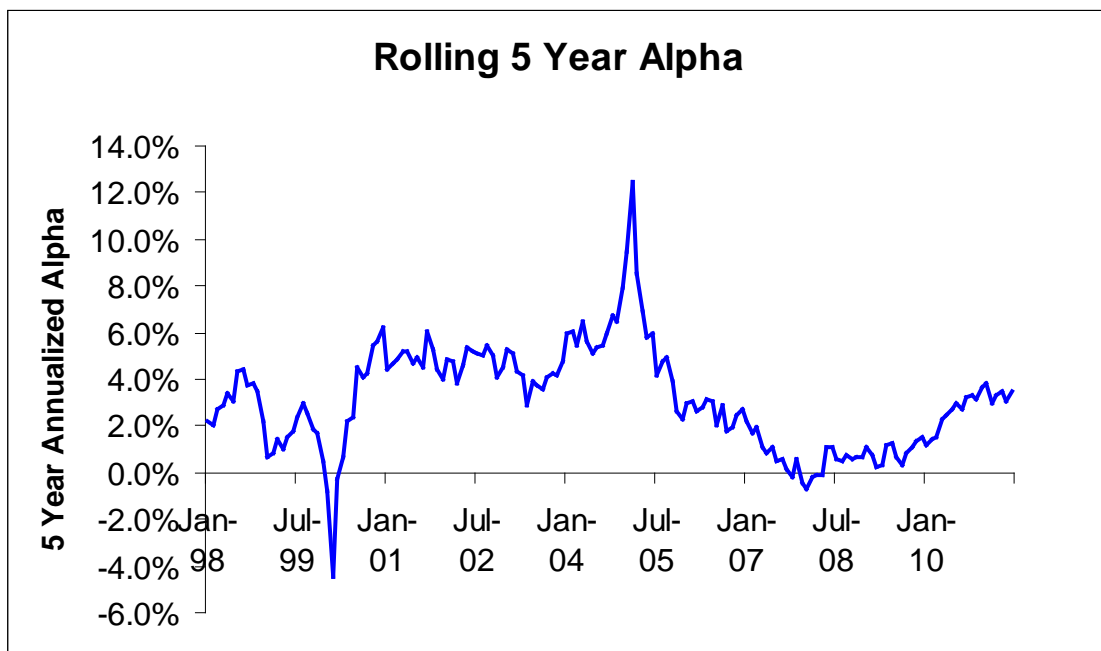
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Meketa Investment Group Public Markets Manager Analysis

Performance

Factor Rating: 4

- Over the last ten years Manager A has outperformed in 81% of three-year rolling periods. The average manager has outperformed in 76% of periods.



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Meketa Investment Group Public Markets Manager Analysis

Fees & Investment Vehicles

Factor Rating: 4

- Separate account schedule (Negotiable for MIG clients): 1% on the first \$10M; 90% on next \$15M; .80% on next \$25M; .70% on assets over \$50M.
- Minimum: \$10 million, but willing to come lower for MIG clients
- A mutual fund is also available with an expense ratio of 1.05%.
- Relative to the small cap universe, for a \$25 million mandate stated fees rank in the 47th percentile. For a \$50 million mandate, in the 42nd percentile.
- Manager A clearly stated they are willing to negotiate for MIG clients.

5 - Excellent:	<i>Manager has all the qualities that the Public Markets Research Team is looking for. One of our highest conviction names in the sector. This manager should be seriously considered in all applicable searches.</i>
4 - Good:	<i>Manager has many of the qualities that the Public Markets Research Team is looking for along with a few identifiable concerns. This manager should be considered in all applicable searches.</i>
3 - Average:	<i>Manager is acceptable and may be retained by the client, but better options may be available.</i>
2 - Below Avg:	<i>Manager has a number of areas of concern to us, and replacement may be advisable.</i>
1 - Weak:	<i>Manager should be replaced.</i>

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M E K E T A I N V E S T M E N T G R O U P

B O S T O N

M I A M I

S A N D I E G O

MEKETA INVESTMENT GROUP

PUBLIC MARKETS MANAGER ANALYSIS

INTERNATIONAL FIXED INCOME

APRIL 2012

*Portions of this document have been redacted
to ensure the security of certain confidential
or sensitive information.*



Firm: Manager A
Eastern United States

Primary Contact: Mr. A
xxx-xxx-xxxx
xxx@xxx.com

Product: International Fixed Income

Portfolio Manager: Mr. B

Strategy Synopsis: Developed Non-U.S.
Fixed Income

Clients: Company A, Company B, Company C

Overall Manager Rating: 3

Factor Ratings Summary:

Organization:	3
Investment Team:	3
Investment Philosophy:	3
Investment Process:	4
Performance:	4
Fees:	3

MIG Analyst: Colleen Clardy

Date: April 5, 2012

Original or Update: Original

EXECUTIVE SUMMARY & CONCLUSIONS

- Manager A's International Fixed Income strategy is an acceptable option for a client looking to diversify their fixed income investments by adding non-U.S. fixed income. I believe Manager A to be a good option in the broader international fixed income asset class. Additionally, I prefer the opportunistic strategy to the investment grade as it allows more degrees of freedom and the inclusion of emerging markets.
- Manager A is wholly owned by Manager B, but has had a long, stable relationship with the parent company. The portfolio managers and analysts appear to be well compensated and have been with the firm for over 15 years.
- Manager A employs a top-down, benchmark agnostic approach to global fixed income management. The strategy focuses on undervalued currencies and real yield, and could be a good diversifier to a portfolio of U.S. bonds.
- Manager A's international fixed income strategies are favorable to others in the space and should be considered in searches for clients considering this type of allocation.

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- Manager A's ownership by Manager B is not ideal, but some of the organizational risk is mitigated by the fact that the portfolio managers have been with Manager A/B since the 1990s. This leads me to believe that the relationship is mutually beneficial, and that the risk of either entity becoming dissatisfied is low.
- The portfolio managers all seem to be a bit quirky. I don't believe this to be a huge risk or issue, but is something to keep in mind when considering putting the strategy in front of clients.
- Manager A takes a benchmark-agnostic approach to international fixed income investing, which may not be appropriate for all clients. The performance may differ from that of the index.

Rating Scale: 5-Excellent, 4-Good, 3-Average, 2-Below Average, 1-Weak.

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Product	Assets (mm)
International Fixed Income – Investment Grade	\$2,087.1
International Opportunistic Fixed Income	\$1,212.3
Global Fixed Income– Investment Grade	\$7,004.3
Global Opportunistic Fixed Income	\$12,544.1
Global Investment Grade Sovereign Fixed Income	\$601.4
Global Credit	\$4.4
Global High Yield	\$39.2

- Manager A is a mid-size “boutique” firm owned by Manager B. They run equity and fixed income strategies.
- Manager B purchased Manager A in yyyy. Manager B takes 15-20% of top-line revenues, but allows Manager A to operate autonomously.
- Total assets under management were over \$3 billion as of December 31, 2011. Fixed income products account for \$24 billion of assets. Manager A also offers large cap equity, diversified equity, absolute value, and balanced strategies.
- The focus of this analysis is the International Fixed Income – Investment Grade strategy. Half of the assets (about \$1 billion) in the come from one sovereign wealth fund.
- Manager A employs 150 people worldwide, with headquarters in the Eastern United States, an office on the West Coast, a subsidiary in Asia, and an operating unit in Europe. The firm continues to add resources to the Asia office and believes it is important to have boots on the ground in Asia.

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Key Professional(s)	Investment Role	Tenure with this Strategy (in Years)	Industry Experience
Mr. B, CFA	Portfolio Manager, Sr. Research Analyst	14	25
Mr. C	Managing Director & Portfolio Manager	17	37
Mr. D	Managing Director & Portfolio Manager	21	44
Mr. E	Associate Portfolio Manager, Sr. Research Analyst	9	10
Mr. F	Director of Global Macro Research	6	35

- The investment team includes three portfolio managers, an associate portfolio manager, a director of global macro research, two analysts, and five members of a trading/implementation group. Mr. B was promoted to Portfolio Manager at the beginning of yyyy, but has worked alongside Mr. C and Mr. D since he started at Manager A in yyyy. The team can also draw on Manager A's high yield and credit analysts.
- The team manages global and international bond portfolios under one large umbrella, and makes allocation decisions based on the particular product/strategy as necessary. The team is on the smaller side, but the process has been designed to be repeatable and scalable.
- Mr. C and Mr. D are still very engaged in the research process. Mr. D is 65, but has no plans to retire. Mr. C seemed youthful and mentioned that a recent divorce made it financially imprudent for him to stop working quite yet. However, he seemed to be engaged in the process, well versed in the portfolio, and keenly aware of macro trends affecting global and international bonds.
- Mr. F, Director of Global Macro Research, lives in Canada, but visits the main office in the Eastern United States twice per month. He was a bank credit analyst and his role is to build models that are used as a roadmap for portfolio construction. The models are only used as a framework, but as the investment grade universe expands it is increasingly necessary to use models to screen for investment opportunities. Mr. F worked with the team in a consulting role pre-yyyy, performing many of the same functions.
- The Portfolio Managers are the decision makers, and if they can't reach an agreement then a position won't be added to the portfolio. This tends to lead toward lower turnover.

Rating Scale: 5-Excellent, 4-Good, 3-Average, 2-Below Average, 1-Weak.

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- Manager A's philosophy is a value-driven, strategic, active approach. The strategy is very focused on top-down macro analysis, but the top-down decisions are created by looking at real yields across the globe.
- In the international fixed income bucket, Manager A manages two types of portfolios: investment grade and opportunistic. Current MIG clients are invested in opportunistic, but investment grade is under consideration by another client. The investment grade strategy is fairly self-explanatory: non-U.S., developed markets fixed income. The investable universe is limited to countries in the Citigroup World Government Bond Index ex-U.S. The opportunistic strategy allows up to 15% of the portfolio to be invested in emerging markets debt.

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- Manager A applies a top-down, value-driven process when structuring international fixed income portfolios. The first step is to use models as a starting point for determining where valuation opportunities exist, where price risk exists, and what the intrinsic value is. Additionally, they try to determine the catalyst that drives the mean-reverting cycle. Alongside of bond valuation, the portfolio managers are also assessing the macro environment and determining where risk and opportunities may present themselves. Macro factors such as each country's business and liquidity cycle, as well as secular and political factors, are evaluated to help establish investment themes.
- Real yield is the primary measure of value. Manager A analyzes high real yield, inflation expectations, default risk, and internal valuation models. Currency valuation is next in importance, as the real yield must be captured in the investor's local currency. Manager A analyzes PPP (purchasing power parity), REER (real effective exchange rate), real rates, and other models.
- Manager A focuses on appreciating, undervalued currencies, and overvalued currencies that can be hedged. Inflation trends, political risks, monetary trends and business cycle and liquidity measures are also considered. Investments are typically concentrated in 8-16 countries that are believed to provide the best value and total return potential.
- Manager A is benchmark agnostic for all the right reasons. Bond indexes are created based on debt issuance, and overvalued currencies and excessive debt issuance push the benchmark's weighting toward countries with strong currencies and larger debt issuance, and away from weaker currencies and low debt issuance. For instance, Japan makes up almost half of the index, but Manager A has zero exposure to Japan, and hasn't had an allocation there in several years due to the fundamentals.
- After analyzing the universe, establishing investment themes, and identifying attractive countries, the portfolio managers then make decisions on currencies, duration, and credit. They will invest in credit if compensated for the risk, but if not will just invest in sovereign debt. If something looks cheap, the first reaction is to try to identify what is wrong with the bond. From there, they may decide whether the fundamentals are attractive.
- Manager A estimates that currency decisions account for 25% of alpha. They approach currency investing as long-term investors, and look for currency valuation extremes. They will hedge currencies if they are so overvalued as to change economic behavior. Typically, they invest in undervalued currencies with the potential to appreciate. Historically, they have hedged 0-50% of the foreign currency exposure back to the U.S. dollar.

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- As a benchmark-agnostic manager, Manager A may look dramatically different from its peers and the benchmark. This leads to a variance in returns, as evidenced by 2008 performance. The strategy underperformed in large part due to their avoidance of Japan and the Yen. However, they maintained this relative underweight (lack of exposure) and it has helped performance in 2012. Additionally, they took positions in other Asian currencies with better potential than the Yen.
- Portfolio managers and analysts are all generalists. The flow of investment ideas into and out of the portfolio is a two way process and revolves around the team research approach. Often, ideas are generated by Mr. C and Mr. D who come up with broad investment ideas, which are then passed down to the analyst team for further research and investigation to determine if they should be included in the portfolio (or whether any existing investments should be reduced or removed from the portfolio).
- Cash and USD exposure are used tactically. At the end of 2011, the strategy held approximately 25% in cash, which has subsequently come down. The rationale for this positioning was that current positions were rolling off and the team decided to hold exposure to USD as it was more attractive than other opportunities in the developed world. The large cash holding is atypical, but possible.

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MEKETA INVESTMENT GROUP
PUBLIC MARKETS MANAGER ANALYSIS

MANAGER A
INVESTMENT PERFORMANCE
FACTOR RATING: 4

	4Q11	1 Yr.	3 Yr.	5 Yr.	7 Yr.	10 Yr.	SI
International Fixed Income Investment Grade	1.64	5.47	7.39	6.94	5.05	10.01	8.06
<i>Citigroup Non-U.S. WGBI Unhedged</i>	-0.48	5.17	4.92	7.23	4.67	8.36	6.05
Excess Returns	2.11	0.30	2.47	-0.29	0.38	1.65	2.01

	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002
International Fixed Income Investment Grade	5.47	7.04	9.69	3.38	9.23	5.18	-4.01	14.74	23.26	30.00
<i>Citigroup Non-U.S. WGBI Unhedged</i>	5.17	5.21	4.39	10.11	11.45	6.94	-9.20	12.14	18.52	21.99
Excess Returns	0.30	1.84	5.31	-6.73	-2.22	-1.76	5.19	2.61	4.74	8.01

	1 Yr.	3 Yr.	5 Yr.	7 Yr.	10 Yr.	SI
Tracking Error	2.94	4.44	5.11	4.59	4.21	4.99
Information Ratio	0.10	0.56	-0.06	0.08	0.39	0.40
Sharpe Ratio	0.78	0.83	0.65	0.39	1.01	0.64
Treynor Ratio	5.79	8.98	7.40	3.97	10.19	6.75
Sortino Ratio	1.30	1.26	1.00	0.57	1.80	1.10
Calmar Ratio	1.48	0.92	0.69	0.50	1.00	0.80
Upside Market Capture	88.66	91.73	79.85	80.17	90.31	88.78
Upside Market Return	16.56	24.32	23.93	22.41	26.52	26.43
Downside Market Capture	78.36	71.38	74.77	72.88	68.03	65.76
Downside Market Return	-13.64	-19.87	-18.68	-16.11	-14.36	-12.92
Batting Average	0.50	0.50	0.50	0.50	0.54	0.55

- Gross of fees performance as of December 31, 2011.
- Inception date mm, dd, yyyy.
- Investment performance ranks in the first 28th percentile for the 1-year period ending 12/31/11, 47th for the 3-year period, 53rd for the 5-year period, and 18th for the 10-year period.

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Investment Vehicle	Minimum Investment	Fee
Separate Account	\$50 million	0.45% on the first \$50 million, 0.40% on the next \$50 million, 0.35% on the balance
Commingled Fund	\$1 million	0.45% on the first \$50 million, 0.40% on the next \$50 million, 0.35% on the balance
Mutual Fund	NA	NA

- Separate account fees rank in the 81st percentile for All EAFE Fixed Income, while commingled fund fees are right at the median.
- Fees are not negotiable. I recommend a commingled fund investment to MIG clients due to operational issues and expenses related to opening accounts in each country.
- Company A and Company B both pay 0.45% as they are invested in the commingled fund. Company C pays the standard separate account fee schedule.

5 - Excellent:	<i>Manager has all the qualities that the Public Markets Research Team is looking for. One of our highest conviction names in the sector. This manager should be seriously considered in all applicable searches.</i>
4 - Good:	<i>Manager has many of the qualities that the Public Markets Research Team is looking for along with a few identifiable concerns. This manager should be considered in all applicable searches.</i>
3 - Average:	<i>Manager is acceptable and may be retained by the client, but better options may be available.</i>
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1 - Weak:	<i>Manager should be replaced.</i>

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APPENDIX G

MEKETA INVESTMENT GROUP

SAMPLE INVESTMENT POLICY STATEMENT



M E K E T A I N V E S T M E N T G R O U P

B O S T O N

M I A M I

S A N D I E G O

CLIENT RETIREMENT SYSTEM

S A M P L E

INVESTMENT POLICY STATEMENT

Presented
January 2011

The purpose of this document is to set forth the goals and objectives of the «Client_Name», and to establish guidelines for the implementation of investment strategy.

Any revisions to this document may be made only with the approval of the Board of the Retirement System.

The Board of the «Client_Short_Name» recognize that a stable, well-articulated investment policy is crucial to the long-term success of the «Client_Short_Name». As such, the Board has developed this Investment Policy Statement with the following goals in mind:

- To clearly and explicitly establish the objectives and constraints that govern the investment of the «Client_Short_Name»'s assets,
- To establish a long-term target asset allocation with a high likelihood of meeting the «Client_Short_Name»'s objectives given the explicit constraints, and
- To protect the financial health of the «Client_Short_Name» through the implementation of this stable long-term investment policy.

I. «Client_Name» Goals

The «Client_Name» was established to provide income to retirees, spouses, surviving spouses, and eligible dependents into perpetuity.

II. Investment Objectives

The investment strategy of the «Client_Name» is designed to ensure the prudent investment of funds in such a manner as to provide real growth of assets over time while protecting the value of the assets from undue volatility or risk of loss.

A. Risk Objectives

1. To accept the minimum level of risk required to achieve the Fund's return objective as stated immediately below.
2. To minimize the likelihood of experiencing a loss over any five-year period (with 90% certainty).
3. To use diversification to minimize exposure to company and industry-specific risks in the aggregate investment portfolio.

B. Return Objective [Select One of the following]

1. In a manner consistent with the goals stated in Section I above, to manage the Fund's assets so as to achieve the highest, reasonably prudent real return possible.
2. In a manner consistent with the goals stated in Section I above, to manage the Fund's assets so as to achieve a high likelihood of attaining a x.x% nominal return over long periods of time.
3. In a manner consistent with the goals stated in Section I above, to manage the Fund's assets so as to target a x.x% nominal return over long periods of time.
4. In a manner consistent with the goals stated in Section I above, to manage the Fund's assets so as to "immunize" liabilities by matching the timing and amount of asset cash flows with the timing and amount of liabilities due.

III. Investment Constraints

A. Legal and Regulatory

The Board intends that the assets of the «Client_Name» at all times are invested in accordance with the provisions of the Employee Retirement Income Security Act (ERISA) and Department of Labor regulations. The Board will retain legal counsel when appropriate to

review contracts and provide advice with respect to applicable statutes and regulations.

B. Time Horizon

The «Client_Short_Name» will be managed on a going-concern basis. The assets of the «Client_Short_Name» will be invested with a long-term time horizon (twenty years or more), consistent with the participant demographics and the purpose of the «Client_Short_Name».

C. Liquidity

The Board intends to maintain sufficient liquidity to meet at least x years of anticipated beneficiary payments (see Appendix D).

Further, the Board intends to invest no more than x% of the «Client_Short_Name»'s assets in illiquid vehicles.¹

D. Tax Considerations

The «Client_Short_Name» is a tax-exempt entity. Therefore, investments and strategies will be evaluated on a basis that is indifferent to taxable status, except where the prospect of Unrelated Business Taxable Income (UBTI) is a concern.

IV. Risk and Return Considerations

The Board accepts the risks associated with investing in the capital markets (market risks), but will minimize wherever possible those risks for which the «Client_Short_Name» is unlikely to be compensated (non-market or diversifiable risks).

V. Diversification

The Board of the «Client_Name» recognizes that an important element of risk control is diversification. Therefore, investments will be allocated across multiple classes of assets, chosen in part for the expected correlation of their returns. Within each asset type, the Board will seek to distribute investments across many individual holdings, thus expecting to further reduce volatility. In addition, each investment manager's guidelines will specify the largest permissible investment in any one asset, and will set other diversification requirements.

¹ Illiquid vehicles are defined as those vehicles that do not allow withdrawals to occur on at least a monthly basis.

VI. Asset Allocation

The Board recognizes that the allocation of monies to various asset classes will be the major determinant of the «Client_Short_Name»'s return and risk experience over time. Therefore, the Board will allocate investments across those asset classes that, based on historical and expected returns and risks, provide the highest likelihood of meeting the «Client_Short_Name»'s investment objectives.

A. Permissible Asset Classes

Because investment in any particular asset class may or may not be consistent with the objectives of the «Client_Short_Name», the Board has specifically indicated in Appendix A those asset classes that may be utilized when investing the «Client_Short_Name»'s assets.

B. Expected Returns, Risks, and Correlations for Permissible Asset Classes

The risk and return behavior of the «Client_Short_Name» will be driven primarily by the allocation of investments across asset classes. In determining the appropriate allocation, the expected return and risk behavior of each asset class and the likely interaction of various asset classes in a portfolio are to be considered. Appendix B lists the expected return, volatility, and correlations for each permissible asset class.

C. Long-Term Target Allocations

Based on the investment objectives and constraints of the «Client_Short_Name», and on the expected behavior of the permissible asset classes, the Board will specify a long-term target allocation for each class of permissible assets. These targets will be expressed as a percentage of the «Client_Short_Name»'s overall market value, surrounded by a band of permissible variation resulting from market forces.

The long-term target allocations are intended as strategic goals, not short-term imperatives. Thus, it is permissible for the overall «Client_Short_Name»'s asset allocation to deviate from the long-term target, as would likely occur during manager transitions, asset class restructurings, and other temporary changes in the «Client_Short_Name». Deviations from targets that occur due to capital market changes are discussed below.

The «Client_Short_Name»'s target allocations for all permissible asset classes are shown in Appendix C.

D. Rebalancing

In general, cash flows to and from the «Client_Short_Name» will be allocated in such a manner as to move each asset class toward its target allocation.

The Board recognizes that, periodically, market forces may move the «Client_Short_Name»'s allocations outside the target ranges. The Board also recognizes that failing to rebalance the allocations would unintentionally change the «Client_Short_Name»'s structure and risk posture. Consequently, the Board has established the following process to rebalance the allocations periodically.

On at least an annual basis, if any strategic allocation is outside the specified target range, assets will be shifted to return the strategy to within the target range. The specific plan for rebalancing will identify those assets that can be shifted at the lowest possible risk and cost, if the rebalancing cannot be accomplished solely by allocating contributions and withdrawals.

VII. Review of Investment Policy, Asset Allocation, and Performance

The Investment Policy Statement will be reviewed at least annually to ensure that the objectives and constraints remain relevant. However, the Board recognizes the need for a stable long-term policy for the «Client_Name», and major changes to this policy statement will be made only when significant developments in the circumstances, objectives, or constraints of the «Client_Short_Name» occur.

The asset allocation of the «Client_Short_Name» will be reviewed on an on-going basis, and at least annually. When necessary, such reviews may result in a rebalancing of asset allocations. In general, the Board intends that the «Client_Short_Name» will adhere to its long-term target allocations, and that major changes to these targets will be made only in response to significant developments in the circumstances, objectives, or constraints of the «Client_Short_Name» or in the capital market opportunities.

The Board will specifically evaluate the performance of the «Client_Short_Name» relative to its objectives and to the returns available from the capital markets during the period under review. In general, the Board will utilize relative, rather than absolute, benchmarks in evaluating performance. The total performance of the «Client_Short_Name» will be evaluated relative to the investment objectives and constraints identified in this investment policy statement. Specifically, the total Fund performance will be evaluated relative to a “custom benchmark” that weights the returns of available market indices on the basis of the «Client_Short_Name»'s target investment structure, to assess the implementation of the «Client_Short_Name»'s investment strategy.

VIII. Investment Costs

The Board intends to monitor and control investment costs at every level of the «Client_Name».

- Professional fees will be negotiated whenever possible.
- Where appropriate, passive portfolios will be used to minimize management fees and portfolio turnover.
- If possible, assets will be transferred in-kind during manager transitions and «Client_Short_Name» restructurings to eliminate unnecessary turnover expenses.
- Managers will be instructed to minimize brokerage and execution costs.

IX. Voting of Proxies

The «Decision_Makers» recognize that the voting of proxies is important to the overall performance of the «Client_Short_Name». The «Decision_Makers» have delegated the responsibility of voting all proxies to the investment managers. The «Decision_Makers» expect that managers will execute all proxies in a timely fashion. Also, the «Decision_Makers» expect the managers to provide a full accounting of all proxy votes, and upon request, a written explanation of individual voting decisions. The «Decision_Makers» intend to review the managers' proxy voting on at least an annual basis.

X. Forbidden Assets and Strategies

Within their investment guidelines, each investment manager will be furnished with a list of asset types and investment strategies that are forbidden.

APPENDIX A

PERMISSIBLE ASSET CLASSES

Asset Class
Public Domestic Equity
Public Foreign Equity
Emerging Market Equity
Private Equity
Real Estate
Investment Grade Bonds
TIPS
High Yield Bonds
Natural Resources
Infrastructure
Commodities
Hedge Funds

APPENDIX B

TWENTY-YEAR, SINGLE ASSET CLASS AND SUB-ASSET CLASS FORECAST

Asset Class / Sub-Asset Class	Expected Return	Standard Deviation of Expected 20-Year Annual Return
Cash Equivalents	2.0%	1.5%
Stable Value	3.4	2.0
Short-Term Investment Grade Bonds	2.7	2.5
TIPS	5.3	6.5
Investment Grade Bonds	4.0	6.0
High Yield Bonds	8.5	11.0
Bank Debt	7.0	9.0
Foreign Bonds (hedged)	3.6	6.0
Foreign Bonds (unhedged)	4.1	11.5
Emerging Market Bonds	6.6	12.0
Emerging Market Bonds (local)	5.2	17.0
Core Private Real Estate	7.5	11.5
Public Real Estate (REITs)	7.5	18.0
Natural Resources	11.0	21.0
Timber	6.0	14.0
Commodities	6.6	22.0
Infrastructure	9.6	14.0
Public Domestic Equity	9.4	16.0
Public Domestic Equity (Large)	9.2	16.0
Public Domestic Equity (Mid)	9.5	18.0
Public Domestic Equity (Small)	9.8	21.5
Public Domestic Equity (Micro)	10.5	23.0
Public Foreign Equity (Developed)	9.9	18.0
Public Foreign Equity (Small)	11.1	23.0
Public Foreign Equity (Emerging)	11.6	24.0
Private Equity	11.9	24.0
Hedge Funds	6.2	10.5

APPENDIX B

EXPECTED CORRELATIONS AMONG ASSET CLASSES AND SUB-ASSET CLASSES

Asset Class/ Sub Asset Class	Short-Term Investment Grade Bonds	Investment Grade Bonds	TIPS	High Yield Bonds	Public Domestic Equity	Public Foreign Equity (Dev.)	Public Foreign Equity (Em.)	Real Estate	Infrastructure	Private Equity	Hedge Funds
Short-Term Investment Grade Bonds	1.00										
Investment Grade Bonds	0.90	1.00									
TIPS	0.65	0.80	1.00								
High Yield Bonds	0.15	0.35	0.30	1.00							
Public Domestic Equity	-0.05	0.25	0.00	0.65	1.00						
Public Foreign Equity (Dev.)	-0.05	0.20	0.10	0.55	0.80	1.00					
Public Foreign Equity (Em.)	-0.10	0.00	0.10	0.50	0.75	0.80	1.00				
Real Estate	0.10	0.25	0.10	0.50	0.40	0.35	0.30	1.00			
Infrastructure	0.20	0.35	0.30	0.45	0.40	0.35	0.35	0.45	1.00		
Private Equity	0.00	0.15	0.00	0.65	0.80	0.70	0.60	0.45	0.50	1.00	
Hedge Funds	0.10	0.25	0.10	0.50	0.60	0.55	0.50	0.20	0.30	0.55	1.00

APPENDIX C

ASSET ALLOCATION TARGETS

	Target	Range
Public Domestic Equity	31%	26% to 36%
Public Foreign Equity	20%	15% to 25%
Private Equity ¹	5%	3% to 7%
Real Estate	13%	10% to 16%
High Yield Bonds	5%	3% to 7%
Investment Grade Bonds	21%	16% to 26%
TIPS	5%	3% to 7%
Cash	0%	< 5%

Based upon the expected asset returns, risks, and correlations cited in Appendix B, this target allocation exhibits an expected annual return of x.x% and an expected annual standard deviation of x.x%.

¹ The uncalled portion of the Fund's private equity portfolio will be invested in public domestic equities.

APPENDIX D

LIQUIDITY PROJECTIONS¹

Current net cash outflows are approximately \$x.x million per year, and are expected to rise to approximately \$x.x million in the near term. This pattern results in a net negative cash flow of x% to x% of Retirement System's assets, based on the Retirement System's year-end 20XX asset value and on the actuarial assumed rate of return of x.x% per year.

¹ Liquidity projections provided by the Retirement System's actuary as of January 1, 20XX.

APPENDIX H

MEKETA INVESTMENT GROUP

SAMPLE WHITE PAPERS



ABSTRACT

In this document, we highlight the ineffectiveness of the professional investment management industry in achieving superior returns. Further, we investigate the use of concentrated portfolios as a way to use investment managers to better achieve investor objectives.

BACKGROUND

Several events have conspired in the recent past that make this topic particularly important at this moment in time. First, notwithstanding a few hiccups along the way, the world's capital markets have experienced a prolonged "bull run" for the last twenty-five years, driven by declining worldwide inflation and interest rates, sustained economic growth, liberalization of capital markets and trade barriers, and the collapse of socialism as a viable alternative to the capitalist economic model. As a consequence, driven by continually rewarded investor optimism, nearly all types of assets are priced dearly today, and expected future returns are, therefore, markedly lower than at any point in the recent past.

Second, the investment manager marketplace, as a whole, has failed to generate substantial value for institutional investors. Driven largely by the real-world business demands imposed on them by consultants and institutional investors, investment managers have increasingly oriented their strategies with a single goal in mind: minimizing benchmark risk. Consequently, institutional portfolios are increasingly diversified and structured to look like a benchmark index. These structures generally do not produce returns weak enough to cause investors to terminate a manager, but rarely produce returns strong enough to help investors better achieve their objectives.

Finally, investment management fees have failed to decline over time. While the number of investment managers has increased substantially over the past twenty years, and competition is fierce, prices for investment management services have not declined. In fact, fees have actually increased in several areas. Further, the "asset-based" fee structure that remains the de facto standard in the marketplace has encouraged managers to elevate the goal of gathering assets above that of producing superior returns.

So, at a time when the general condition of the capital markets is less likely to enable investors to achieve their goals, the active management industry has failed to produce a solution to navigate the course with more success.

This paper examines the three trends summarized above in some detail. Further, it examines an alternative method to using active managers, one more likely to add value to an investor's portfolio over long periods of time.

WHY WILL THE TRADEWINDS DIMINISH?

In the late fifteenth century, European explorers began sailing from the western shores of Europe to the New World. The trip was hastened by the discovery of consistent tropical tradewinds that drove ships westward in the lower Atlantic latitudes, and arctic tradewinds that drove ships homeward in the higher Atlantic latitudes. The magnitude and consistency of these tradewinds jumpstarted the development of the New World and greatly increased the wealth of most of Europe for several hundreds of years.

Like late fifteenth century explorers, late twentieth-century investors, as a group, were the beneficiaries of warm, consistent tradewinds. These more recent tradewinds, however, did not enrich explorers, merchants, and European aristocracy but, rather, money managers, traders, and investors.

After a decade marked by rising oil prices, spiraling inflation, political instability, and high unemployment, by the early 1980s most financial assets (e.g., stocks and bonds) were priced cheaply worldwide. For example, in 1982, a twenty-year Treasury bond was yielding 14% – quite a healthy guaranteed return. The U.S. stock market was priced at a price-earnings multiple of 10X, on depressed earnings. With prices depressed, those investors with the courage to place a stake in the out-of-favor financial markets stared at very high long-term expected returns.

What followed over the next twenty-five years was a tremendous improvement in the worldwide economy. First, austere monetary authorities began squeezing out the systemic inflation that had worked its way into the global economy. With inflation tamed, bond investors piled money into fixed income instruments, driving yields down significantly. Equity markets, in turn, experienced expanding price multiples as capital began seeking riskier assets again. And, all of these events were reinforced by strong and stable economic growth. Over the course of less than twenty-five years, the yield on long-term Treasuries declined from 14% to 5%. The price-earnings multiple of the U.S. stock market expanded from 10X to 25X. Foreign markets previously thought of as uninvestable (e.g., Russia, China, India) became the target of “hot money” everywhere. The debt issues of several “emerging market” countries, like Mexico, were given investment grade ratings, with yields less than half those of U.S. Treasuries just twenty-five years earlier.

Warm tradewinds benefited all investors, skilled ones, as well as those not so skilled. Below is a table of the average annual returns of several broad asset classes over the twenty-five years ending in 2006.

Asset Class	January 1982 – December 2006 Annualized Total Return
Cash (30-day T-bills)	5.3%
Inv. Grade Bonds (Lehman Aggregate)	9.5
High Yield Bonds (Lehman HY/Ibbotson HY)	11.1
Real Estate (NCREIF)	8.9
US Large Cap Equities (Russell 1000)	13.3
US Small Cap Equities (Russell 2000)	11.8
Foreign Equities (MSCI EAFE)	12.2

There are two items of significant note from the table above. First, the returns for most of these asset classes over the past twenty-five years are significantly higher than their longer-term returns. Second, for this twenty-five-year period, even an investor making bad decisions would have quite easily produced the roughly 7.5% - 8.5% return required by most pension plans and endowments today.

Unfortunately, while oceanic tradewinds persist for millennia, capital market tradewinds are more fickle. And, with worldwide interest rates at low levels, price multiples of most financial assets near historically high levels, and economies worldwide largely operating at near-optimal levels, the fuel for the tradewinds machine has largely run dry.

While today's environment does not necessarily mean that investors will face headwinds in the future, at a minimum it means that investors should expect returns from asset classes in general that are no higher than long-term historical averages. During the twentieth century, these averages were about 11% per year for equities and 5% per year for government bonds.

The table below shows Meketa Investment Group's expected returns for asset classes over the next twenty years, based on the current market environment and the long-term intrinsic earning power of these assets.

Asset Class	Expected Annual Return
	2007 - 2026
Cash	4.0%
Investment Grade Bonds	5.3
High Yield Bonds	6.7
Real Estate	7.5
U.S. Large Cap Equities	8.9
U.S. Small Cap Equities	9.7
Foreign Equities	9.3

Two conclusions can be drawn from the table above. First, to have a fighting chance at achieving a 7.5% to 8.5% annual return, plan sponsors must place a high percentage of their assets in equities. Second, the "average" investor, without the benefit of strong active management, may very well not achieve the return necessary to balance the needs of most plan sponsors. Only the strongest investors will be able to achieve the results they desire over the next twenty years.

To sail to the New World of financial markets without the benefit of tradewinds, explorers will have to much more skillfully and opportunistically navigate the open ocean that awaits them.

THE FAILURE OF ACTIVE MANAGEMENT PART ONE:
FAILURE TO BEAT BENCHMARKS

It is a truism that, after the costs of investing are taken into consideration, the majority of investors will underperform the market in which they invest. Why is this? All of the outstanding shares of financial assets are held somewhere, by someone, who is an investor. If one investor outperforms the average of all others, by necessity another investor must equally underperform the average of all others. Thus, the “average” investor can expect the “market” return. After trading costs, even the “average” investor will underperform the market.

Thus, it is not surprising that most investors underperform the market after fees and trading costs are taken into account.

What is surprising is that most professional investment managers underperform the “market” after fees. Investors in company stock, or holders of various types of bonds, can be individual investors, company employees, the proverbial grandmother who has held 100 shares of IBM for half of a century, or even other companies. None of these investors get paid exclusively to outperform the market. What is surprising is that those investors who do get paid to outperform (i.e., the investment management industry) cannot do so consistently at the expense of those who are not paid.

Many studies have examined the efficacy of active management. All have the same conclusion: on average, professional active investment managers fail to outperform the market over long periods of time, after all costs are taken into consideration. The table below shows the results for just one of these studies.¹

Average outperformance of large cap mutual funds versus the S&P 500 index through April 2006	
3 Years	0.0%
5 Years	-0.6%
10 Years	-1.2%
15 Years	-0.9%

WHY DO PROFESSIONAL MONEY MANAGERS FAIL TO ADD VALUE?

There are many possible reasons why professional money managers fail to add value, on average, over long periods of time. The following reasons are perhaps the most salient.

First, and most importantly, markets are very efficient over the long term. Strategies that work well for a few years often stop working as soon as other investors identify the inefficiency that has been exploited. Due to the sheer number of professional money managers that spend most of their time scouring an informationally efficient market for opportunities, most inefficiencies are identified and corrected fairly quickly. Thus, even

¹ Data Source: Morningstar. Study conducted by Meketa Investment Group.

smart, well motivated investors will have a difficult time outperforming markets. However, this very difficult game is often made more difficult by the managers themselves, as explained below.

Second, most professional investment managers handicap themselves by managing so much money they can no longer effectively execute a strategy to exploit inefficiencies in the market, even if that inefficiency still exists. A stereotypical story of a successful investment manager is one that begins with a prolonged period of strong returns, usually three to five years, followed by an aggressive marketing effort to notify the world of the manager's "skill." The marketing campaign is usually successful in attracting assets to the manager. As assets grow, the manager is forced to increase the number of securities held, reduce the volume of trading, change the types of the securities in which they invest, or some combination of these that serve to distort the original strategy that effectively exploited an opportunity. Thus, the quest to increase their own profits by increasing the amount of money they manage reduces the managers' ability to produce profits for their clients.

The third and fourth reasons that money managers fail to add value are interrelated. As successful investment managers grow in size, a goal of maximizing their business profits causes a shift in goals from producing the strongest returns for clients to producing returns that are least likely to cause a client to terminate the manager. This causes a manager to become more "index like." Causing and reinforcing the shift in goals, traditional investment managers are generally paid asset-based fees, encouraging this conservative behavior.

A related factor is the generally over-diversified nature of many investment management strategies. These strategies have evolved to become overly diversified because most consultants and clients hold investment managers to unrealistic short-term performance standards, given the random nature of the capital markets. Diversifying portfolios thoroughly minimizes the likelihood of a manager ever producing returns so weak over short periods of time that a client will terminate them.

The following table shows the average return over the past ten years of large cap equity funds that, at the end of 2005, held more than 100 stocks (excluding index funds), and those that held fewer than 30 stocks. This comparison is somewhat crude, though it is a fair generalization that strategies that invest in more stocks are more benchmark-like than those that invest in fewer stocks.

Average "outperformance" of strategies with fewer than 30 stocks over those with more than 100 stocks ²	
3 Years	1.4%
5 Years	1.2
7 Years	3.6
10 Years	1.9

² Data source: eVestment Alliance

Additionally, managers of “sector” funds tend not to be as benchmark conscious as managers of market portfolios. One would suspect that, as a result, sector fund managers may be able to outperform their sector indexes better. This is illustrated in the following table.

Average “outperformance” of sector strategies ³	
5 Years	4.1%

In a recent study conducted by Martijn Cremers and Antti Petajisto of the Yale International Center for Finance, titled “How Active is Your Fund Manager? A New Measure That Predicts Performance,” the authors calculated that mutual funds with the highest “active share” (more concentrated portfolios) outperform those with the lowest “active share” (closet indexers) by approximately 3% per year. This study found persuasive evidence that investors are much better off investing with managers whose portfolios look less like the indexes they are benchmarked against.⁴

The thesis that managers have failed to outperform because of the traditional asset-based fee schedule is more difficult to test. Most investment products in the marketplace today that charge performance-based fees invest in “alternative” strategies – hedge fund strategies, private equity, and real estate. By their nature, these strategies are not very benchmark conscious. Further, there are few strategies in these areas that charge fees with no performance incentives. Thus, isolating fees as a cause of weak returns is very difficult.

EXPLAINING THE DATA

When most investment managers start out, their business goal is simple: produce a return series strong and persistent enough to attract investors. Very simply, investors buy performance. During this early stage of an investment manager’s development, a manager’s goals are well aligned with their clients’ goals.

Generally speaking, only managers with superior initial track records of three to five years “survive” to attract investor assets. The “non-survivors” generally go out of business. After a long enough track record is established, a strategy is then marketed aggressively to investors through a variety of different channels. If returns continue to be strong, these marketing efforts will be successful, and assets will pile into the investment strategy.

At a certain point, most entrepreneurial managers reach a size where the equation determining success or failure changes. When a manager has few client and few assets to manage, taking “business risk” has nearly unlimited upside rewards and limited downside consequences. In other words, producing truly superior returns will likely lead to

³ Data source: eVestment Alliance

⁴ Cremers, Martijn and Petajisto, Antti, Yale School of Management, International Center for Finance, “How Active is Your Fund Manager? A New Measure that Predicts Performance,” Yale IFC Working Paper No. 06-21.

significantly more clients and much higher profits. Producing very weak returns will cause an unprofitable business to remain unprofitable.

However, as assets increase into the billions of dollars, presumably after a prolonged period of superior performance that attracts new clients, an entrepreneur's equation changes. Now, the "business risk" taken by managing portfolios for the highest return outweighs the potential rewards of adding new clients and assets.

The reason the equation changes is that, while investors tend to "buy superior performance," they tend not to "sell mediocrity." Thus, a manager with a very strong track record has an incentive to change its strategy to produce more benchmark-like returns. Producing benchmark-like returns ensures a manager that over a standard reporting period of a quarter or a year, their strategy will be unlikely to produce returns that look bad enough to cause them to get fired. The corollary to this behavior is that a strategy producing benchmark-like returns is equally as unlikely to produce the superior returns that attracted investors to the strategy to begin with. In short, managers, as they grow, have an incentive to produce returns closer to the index that they are compared against by clients.

When professional asset managers use strategies that have the potential to significantly outperform or underperform a benchmark, it is less likely that most of those managers will underperform a benchmark. The reason is that asset-based management fees, which are subtracted from all professional investment manager returns, comprise a far larger fraction of the outperformance of the successful investment managers that manage benchmark-like portfolios.

THE FAILURE OF ACTIVE MANAGERS PART TWO: FEES THAT MISALIGN INTERESTS

The law of supply and demand in economics is universal, but it does not apply to all products and industries equally.

Over the past twenty-five years, active management fees have generally increased, despite an explosion in the supply of professional investment managers. One significant reason for this is that consumers of professional investment management services are generally not price sensitive. Other factors, such as historical performance, "brand" image, and relationships, play a large role in the selection of professional investment managers. From 1978 to 2006, average mutual fund expenses increased from 0.91% to 1.36%. Note that one area void of most non-fee factors, indexing, has experienced a significant decline in fees over the past twenty-five years.

As most asset classes produced strong results over the past twenty-five years, most investors were willing to pay lofty fees, which represented a small fraction of total returns.

What lessons have professional investment managers learned from consumer behavior over the past few decades? There are two. First, there is little benefit in lowering fees to attract assets. Consumers appear somewhat indifferent to the fees they pay, judging by the pricing behavior of managers. Second, if fees and revenues remain high simply as a function of gathering and maintaining assets, the profit-maximizing goal of a professional asset manager is not to produce the strongest returns, but to attract the most assets (without risking losing assets).

In this way, the asset-based fee schedule has conspired with the increasingly benchmark-like strategies of managers to create an environment highly profitable for professional investment managers, but largely ineffective in achieving investor goals.

A BETTER WAY TO MANAGE MANAGERS

As there appear to be several shortcomings in the current model of using investment managers, there must be several enhancements that can be made. The current model suffers, at its core, from a misalignment of the interests of the investment manager and those of institutional investors. This misalignment has driven managers to structure portfolios designed to better achieve their own goals, not those of the plan sponsors for whom they manage assets.

Changes in the way managers are managed must focus around changing these incentives. These changes fall into five broad categories: utilizing more concentrated portfolios, allowing broader portfolio mandates, utilizing performance-based fees, evaluating managers over longer periods, and encouraging other incentives to align interests.

CONCENTRATED PORTFOLIOS

Most large institutions today hire multiple investment managers to ensure full exposure to the various areas of the capital markets. In essence, institutional investors are already ensuring diversification at the aggregate level. Further, many plan sponsors blend active management strategies with indexing strategies, to ensure full diversification. Thus, the diversification afforded by active strategies is often duplicative and expensive.

If a plan sponsor can construct a multiple-manager portfolio, and attain the exposure and diversification required, then there is no need to pay an active manager to provide diversification. The only function an investment manager should serve in this construct is that of being the strongest “stock picker,” “bond picker,” or, in the recent parlance of institutional management, the strongest provider of “alpha.”

What constitutes a concentrated portfolio? Clearly, there is a spectrum of more or less concentrated strategies. The appropriate level of concentration is one that allows a manager to invest in the number of stocks or bonds that they can understand with the highest degree of conviction. In a concentrated portfolio, diversification should not justify holding a security.

Further, the nature of the market in which securities are being evaluated makes a difference. For example, within large cap U.S. stocks, where there are approximately 500 stocks that fall into most manager universes, a concentrated portfolio may consist of 15 stocks. But, in the microcap stock space, where there are thousands of stocks to choose from, a concentrated portfolio may consist of 50 names.

Thus, for some managers, a concentrated portfolio may consist of 10 to 15 names. For others, a concentrated portfolio may consist of 40 to 50 names. The important factor is that the portfolios not be structured to mirror structurally the market they are attempting to outperform. Rather, they should be structured to take best advantage of a manager's ability to identify individual securities likely to outperform the market.

BROADER PORTFOLIO MANDATES

In addition to more concentrated portfolios, some managers are likely to be better able to take advantage of inefficiencies with broader portfolio mandates.

Often, in an effort to control the short-term risk in a portfolio, consultants and plan sponsors will create very limited roles for active managers. For some managers, with a focused expertise, this is appropriate. But for others, mandates with a very limited scope could constrain the value that could be added to a portfolio.

Take, for example, the case of a manager that has very successful products in the mid cap, small cap, and microcap areas. Most clients hire the manager to manage portfolios in one, or several of these areas. However, each portfolio has a narrow scope. If the manager is truly skilled at finding inefficiencies in all three sectors of the market, then it may make more sense to hire the manager and allow them to select stocks from all three areas. In essence, the manager would be taking its "best ideas" from all three portfolios. This broader portfolio would concentrate the skill of the manager much more than simply hiring the manager to invest in only one of the three sectors.

PERFORMANCE-BASED FEES

At the root of the problem with professional investment managers is the asset-based fee. The asset-based fee encourages managers to produce mediocre results. However, many performance-based fees used today encourage an even more damaging behavior: short-term risk taking.

Most performance-based fees used in the institutional investment management arena are structured over short time periods (one to three years), and are designed to give managers a very large fee if performance is better than the benchmark. There are two problems with this model. First, the performance-based fee is "relative" to a benchmark. Consequently, it encourages the same benchmark-seeking structures as the asset-based fee. Second, the fees are generally short-term. It is well established that most markets exhibit price behavior that

is so random that evaluating any investment strategy over periods as short as one to three years is more likely to be crediting or penalizing a manager for “market noise” than for the ability to exploit market inefficiencies.

Ideally, performance-based fees should be structured to align the long-term interests of the manager with those of the plan sponsor. Therefore, performance-based fees should have several components. First, to minimize excessive “risk taking” with performance incentives, even performance-based fees should have a small asset-based component. The size of the asset-based fee should be commensurate with allowing the manager to invest in the resources necessary to successfully manage the portfolio. The asset-based component is not meant to reward the manager, but simply to keep the manager’s operations going.

Second, the performance-based fee should provide for rich upside potential for the manager. Conceptually, all of the manager’s profits (and the investor’s, for that matter) should come from the performance incentive. The performance incentive, often approximately 20% of “excess return,” should only be granted once an absolute benchmark return is achieved.

Third, the performance-based fee should have a long measurement period – at least 7 years. This period is sufficiently long enough to begin separating investment skill from luck for most investment strategies. Thus, managers begin to get paid not based on the random noise of the market, but on their true skill in identifying inefficiencies.

Finally, the performance-based fee should have an “absolute return” benchmark. Since the evaluation period is long enough to smooth out much cyclicalities in capital markets, and consistent in time horizon with most plan sponsors’ objectives, the benchmark for the manager should be an absolute return (e.g., 8% per annum). Because most plan sponsors have long-term absolute return objectives, it is appropriate to incentivize a manager to produce the strongest absolute returns over longer-term periods. This will relieve a manager from necessarily mirroring the structure of a market index benchmark to satisfy the shorter-term evaluation periods of many clients and consultants. “Relative” benchmarking is necessary over short to intermediate-term periods to assess manager performance in light of highly volatile markets. Longer-term, relative benchmarking can misalign interests.

OTHER INCENTIVES

Plan sponsors should also look for other ways to align the interests of managers with their own. For example, plan sponsors can demand that managers invest a certain portion of their own capital alongside their clients’. This structure has worked well with many private investment vehicles. A sizable commitment by the manager should better align the interests of both parties.

Further, plan sponsors should consider having longer-term contracts with managers. These contracts could be drafted with many investor-friendly components, such as limiting assets under management, restricting changes in personnel, limiting “new strategies” offered by the investment team, etc., in exchange for the greater security afforded the manager with longer contracts. For example, in the private equity and real estate arenas, ten-year agreements are quite common.

DEVELOPING A CONCENTRATED MANAGER PROGRAM

All of the suggestions above have a degree of logic associated with them. However, simply beginning to hire managers structured as above will not lead to a successful investment program. In fact, it could cause much harm.

Remember, institutional investment managers evolved to where they are today for a reason. Most institutional investors are very short-term focused. Most consultants or Boards of Trustees cannot tolerate extended periods of weak returns. The result is a preference for more diversified portfolios.

By concentrating portfolios and, thereby, eliminating the diversification inherent in many active strategies, an investor will be subjecting himself to even more short-term volatility in relation to an index, heightening the need for self control in monitoring managers. To protect against this, it is important to utilize concentrated portfolios within a controlled framework.

A concentrated manager program should have three goals:

- Achieve stronger returns from active management
- Achieve stronger returns per dollar of management fees paid
- Control interim volatility by using multiple managers

The appeal of concentrated portfolios is the enhanced likelihood of achieving superior results. Further, by placing greater emphasis on performance-based fees, and less emphasis on asset-based fees, it is likely that returns per dollar of management fees paid will also be enhanced. Controlling interim volatility becomes the most challenging goal.

By hiring concentrated managers, a plan sponsor is implicitly acknowledging that they, not the manager, will be responsible for controlling diversification and short-term volatility vis-à-vis an index. These are objectives that most investment managers share in structuring their traditional investment management products. In a concentrated manager program, managers are being utilized only to exploit market opportunities, not to provide benchmark tracking or diversification. These latter functions must be satisfied by the plan sponsor.

Clearly, concentrated portfolios are likely to be more volatile than diversified portfolios, on both an absolute and relative basis. To moderate this volatility, it is important to utilize multiple concentrated portfolios, well chosen and structured. In choosing concentrated portfolios, plan sponsors should utilize managers with varied styles and strategies, to maximize the diversification benefit of using multiple managers.

The right number of portfolios to use in a program will vary based on the goals of the program. For example, to focus a concentrated manager program on small cap U.S. stocks, you may only require four to six concentrated managers to provide broad enough exposure to the small cap market. However, to focus a concentrated manager program on the entire U.S. equity market, 10 to 15 managers may be more appropriate.

Further, index funds can be used in conjunction with a concentrated manager program to govern the amount of relative volatility in the program in a very cost effective way. For a rough example, consider a plan sponsor that wishes to have a “tracking error” to the Russell 3000 index of 5% on an annual basis and wishes to use concentrated portfolios. The plan sponsor could place half its capital in a group of concentrated managers with a predicted “tracking error” of 10% and the other half in a broad market index fund that has no tracking error. This allows the plan sponsor to more precisely govern the amount of relative volatility it accepts, while maintaining much lower management fees than simply hiring more diversified active managers.

MONITORING

Once a concentrated portfolio is developed, Trustees still carry the obligation to monitor the program regularly. Further, because the program can consist of dozens of investment managers, this oversight can be burdensome.

For plan sponsors with investment professionals on staff, monitoring the many concentrated portfolios can be achieved more easily. For those without an investment staff, Trustees will have to rely on investment consultants to monitor the details of the program, on an advisory or discretionary basis.

In both cases, Trustees should spend their time monitoring the “program,” not the many investment strategies employed within the program. The program should have its own parameters and guidelines that Trustees develop and review regularly, such as minimum number of investments, sector and industry constraints, and constraints on derivatives, leverage, and short-selling.

Because Trustees, not individual managers, are creating the necessary diversification, it is important to have constant position-level oversight of the program and investment guidelines for each of the program’s managers. It is important to know at all times both what risks are in the program and what risks could be in the program. Thus, whether the program is overseen by internal investment staff, an investment consultant, or a manager of managers, the degree of oversight is heightened as compared with that for diversified portfolios.

CONCLUSIONS

The institutional marketplace finds itself at a unique point in time. At the precise time when active management is needed to assist in achieving institutional investors' goals, active management has become overly diluted and broadly unsuccessful.

The world has experienced a quarter century of extraordinarily strong capital market returns, driven by declining interest rates, strong economic growth, and global economic integration. Over this time, investors have navigated the capital markets with these strong tailwinds at their backs. Going forward, these tailwinds will not exist as they have, making it far more difficult for plan sponsors to achieve their goals.

While traditional active management has evolved to be largely ineffective in materially helping plan sponsors achieve their long-term goals, investors can still use the skills of active managers as a tool to achieve their goals. By using active managers that invest "concentrated" portfolios, invest broader mandates, are given incentives to maximize long-term returns, and charge performance-based fees, plan sponsors can design "concentrated manager programs" that have a higher likelihood of contributing strongly toward reaching their goals.

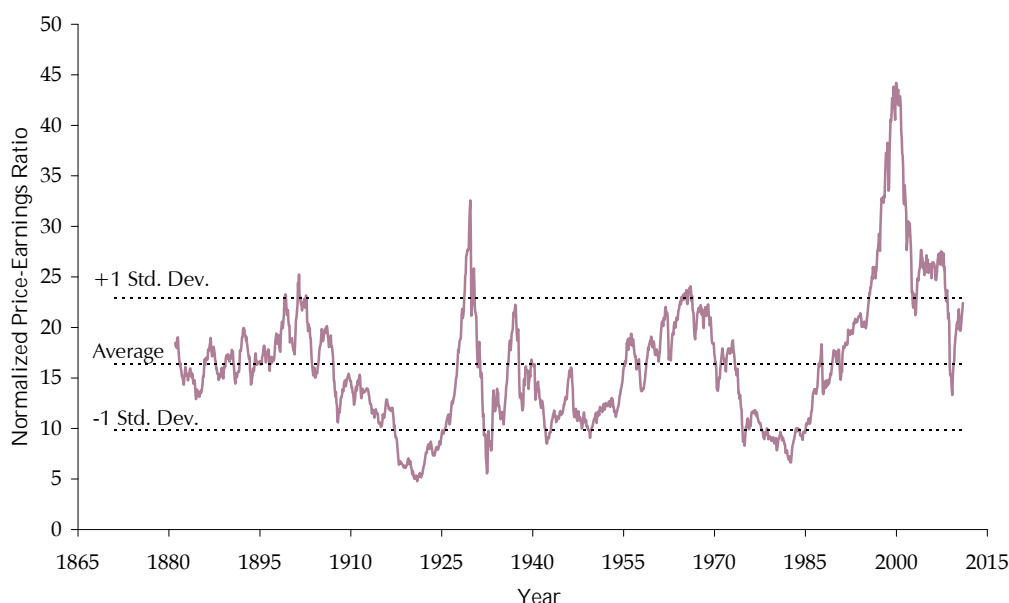
Written: 12/2010
Last Revised: 3/2011

INTRODUCTION

Most institutional investors have an investment return target that is well above the returns available from the safest investment grade bonds. As a result, sizable strategic investments in higher-returning equities are necessary to meet plan goals. Based on the research presented below, Meketa Investment Group believes that a U.S. equity portfolio tilted towards higher quality, higher stability, and higher income stocks can significantly increase risk-adjusted returns for equity-oriented investors.

In some environments, investors may expect to be extremely well compensated for equity risk. In others, such as at the end of 2010, investors may expect to be less well compensated for equity risk. Figures 1 and 2 depict two important predictors of long-term equity returns over time: the ten-year normalized price-to-earnings ratio and the dividend yield.¹

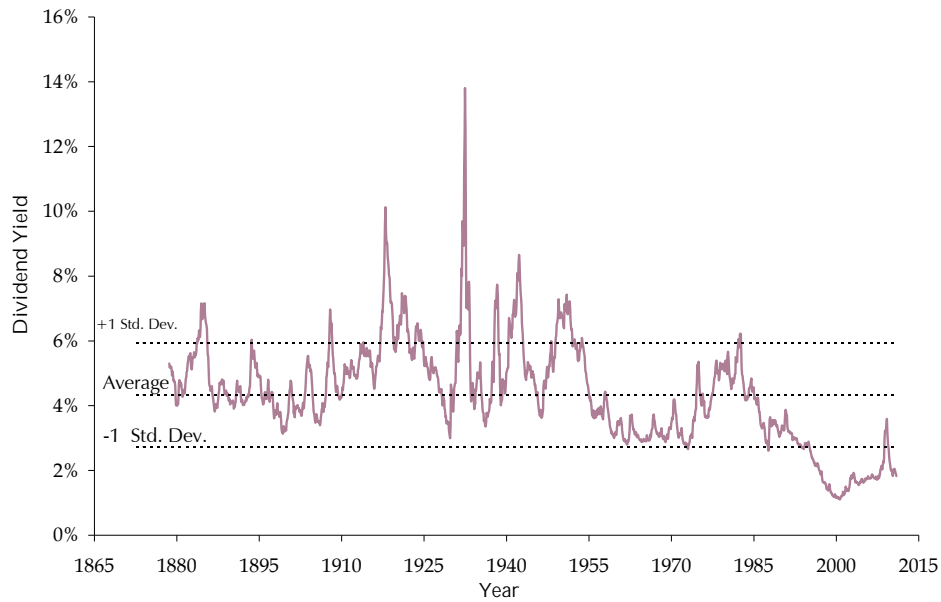
Figure 1. Ten-Year Normalized Price-to-Earnings Ratio, 1880-2010



Source: Shiller, Global Financial Data, S&P, Meketa Investment Group

¹ Other well-known predictors, such as the Q measure, paint a similar picture of less-than-satisfactory long-term equity returns.

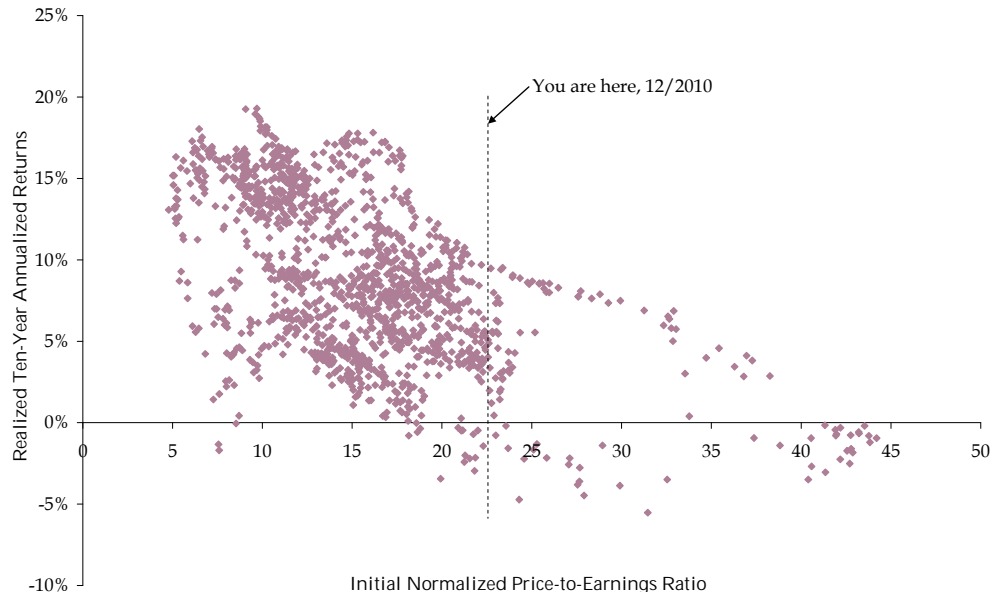
Figure 2. Dividend Yield, 1880-2010



Source: S&P

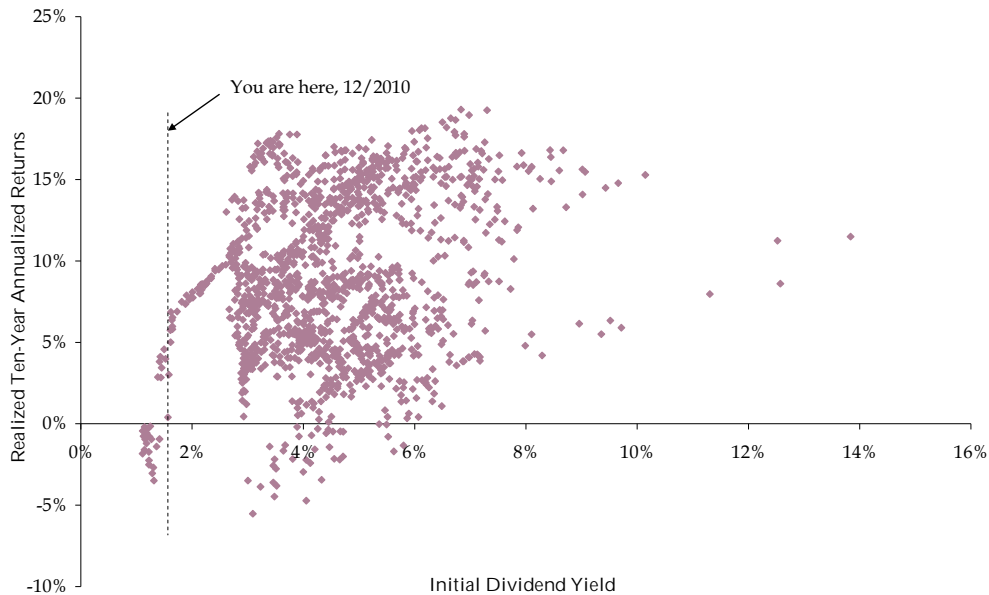
When the ten-year normalized price-to-earnings ratio is high compared with its historical average, long-term returns to equities tend to be low compared with their historical average (see Figure 3). As shown in Figure 1, the normalized price-to-earnings ratio is currently almost one standard deviation above average, implying a sub-standard long-term return. Similarly, when the dividend yield is low, future long-term returns to equities tend to be low (see Figure 4). Figure 2 indicates that the current dividend yield is close to historic lows, again implying equity returns that may be significantly below the average historical experience.

Figure 3. Realized Ten-Year Annualized Return and Initial Normalized Price-to-Earnings Ratio



Source: Shiller, Global Financial Data, S&P, Meketa Investment Group

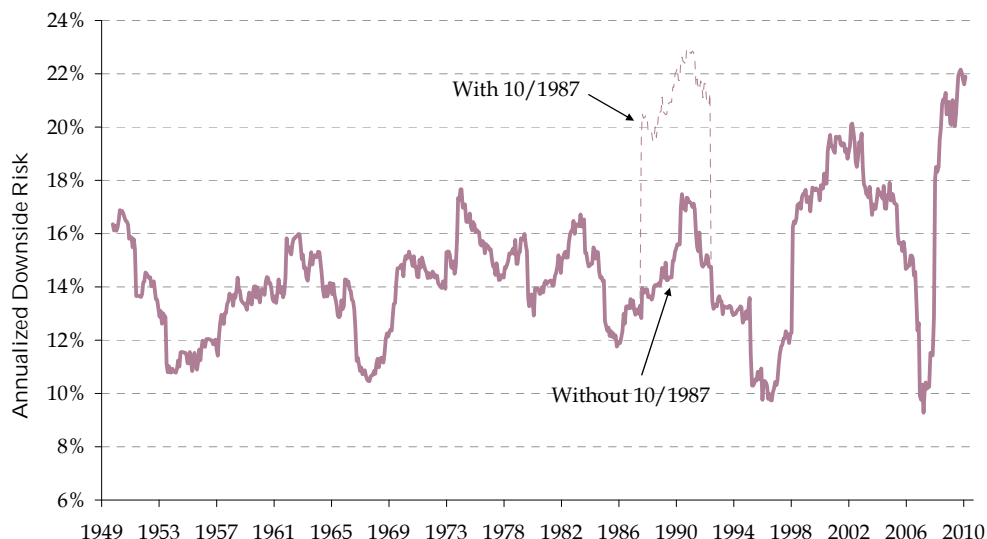
Figure 4. Realized Ten-Year Annualized Return and Initial Dividend Yield



Source: Shiller, Global Financial Data, S&P, Meketa Investment Group

If equity risk were expected to be low, these currently muted expectations for equity returns would be acceptable for many investors. In such a case, equity investors would expect to be modestly compensated for the modest risk they have assumed. But it is hard to imagine that equity risk will in fact be low: unemployment is still high, debt at the government and household level is historically high and deleveraging is ongoing, Europe is struggling with insolvency, global trade imbalances have not been resolved, and global central bank policy is in uncharted territory. Furthermore, realized downside volatility has generally been increasing over recent history (see Figure 5). Therefore, plan sponsors are rightly concerned that they are not being fairly compensated for equity risk. As a result, plan sponsors may wish to control downside equity risk.

Figure 5. Five-Year Rolling Downside Volatility, 1980-2010



Source: Shiller, Global Financial Data, S&P, Meketa Investment Group

A PROPOSED APPROACH

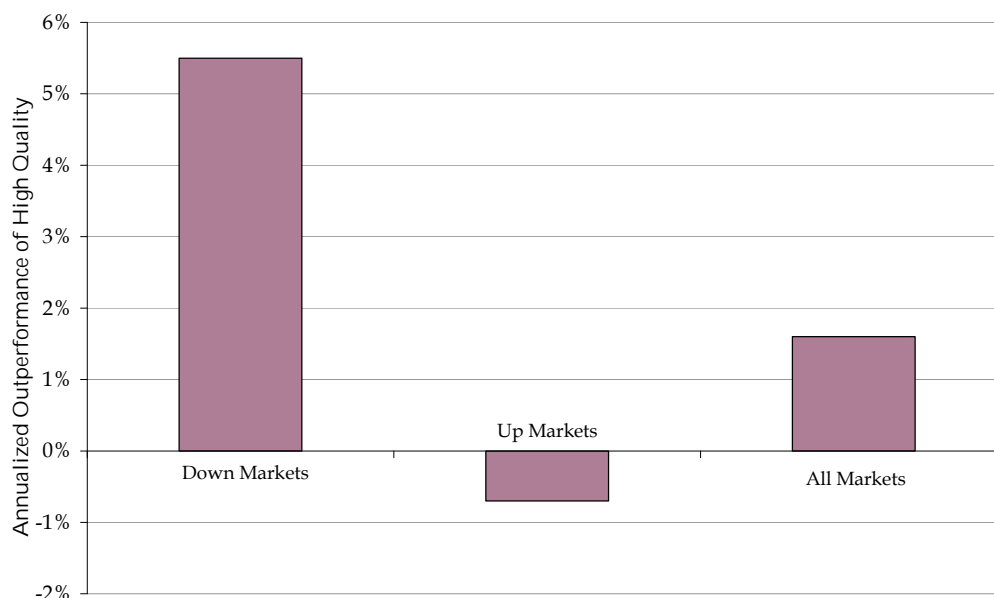
Based on our research, plan sponsors should consider an investment in high quality stocks with high dividends that perform relatively well in adverse economic environments. Such an investment should help mitigate downside risk and improve the risk-adjusted return of an equity allocation.

Quality

In industry parlance, high quality stocks are those issued by companies that—among other related things—display relatively consistent earnings, strong balance sheets, low leverage, and have positive or stable growth outlooks. Quality as an important factor in equity investing is not new, but it has been garnering increased attention among managers and index providers.² Some managers now refer to quality as an additional factor after style (i.e., value or growth) and capitalization (i.e., small or large), referencing factors that have historically improved risk-adjusted equity returns.

The following three figures show how high quality stocks have historically provided better shelter during difficult environments. Figure 6 summarizes the performance of high quality stocks relative to the broad equity market from 1982 through 2009, as separated into “down” and “up” markets.³ During down markets, a basket of high quality stocks outperformed the market by 5.5% on an annualized basis. And while they lagged by 0.7% during up markets, high quality stocks outperformed by 1.6% over the entire period.

Figure 6. High Quality During Down Markets



Source: Bernstein Research; Market represents the largest 1,500 U.S. stocks on an equal-weighted basis from January 1982 to September 2009. Up/down markets are those months in which an equal-weighted portfolio of the largest 1,500 stocks increases/decreases in value during the month.

² See references section for a list of relevant publications.

³ “Down” markets are defined as months in which the market lost value; “Up” markets are defined as months in which the market gained value.

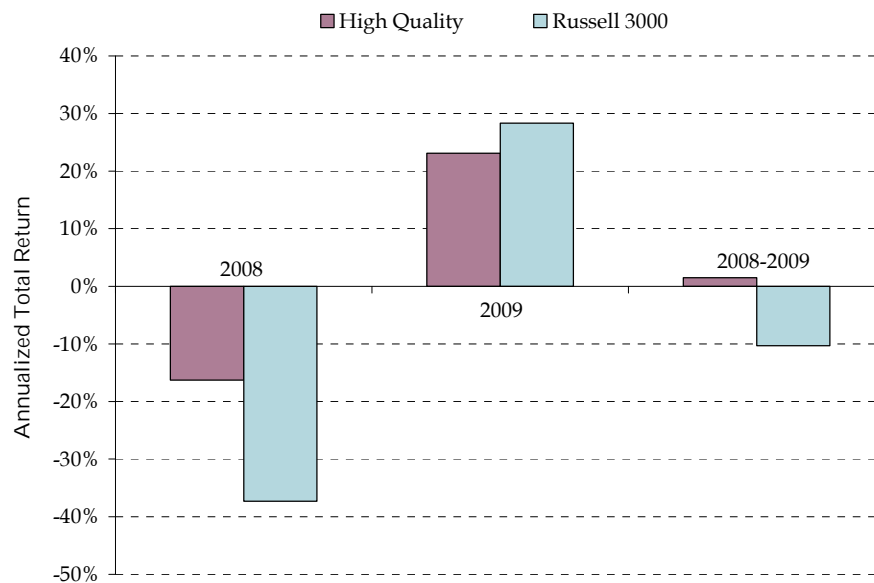
Figure 7 provides another related view into the benefits of high quality stocks. In this case, performance is broken down into rising and falling volatility environments from 1997 through 2010. In rising volatility environments, high quality stocks outperform low quality stocks by 9.2%—providing better protection in adverse conditions. The cost of this protection is that high quality stocks underperformed during more benign, falling volatility environments by 3.4%. This pattern repeats when focusing on more recent history, as depicted in Figure 8. In 2008, high quality stocks provided a safer haven than low quality stocks, but failed to keep up during the rally of 2009. Nevertheless, avoiding the downside in 2008 proved to be all that was necessary to provide greater returns over the combined period.

Figure 7. High Quality during Periods of Rising Volatility



Source: S&P Research; Rising/falling volatility quarters are those quarters during which the CBOE VIX increases/decreases from May 1997 to May 2010. High quality is defined as those stocks assigned an S&P quality ranking of A- or above.

Figure 8. High Quality during 2008-2009



Source: Meketa Investment Group; High quality is defined as those stocks assigned an S&P quality ranking of A- or above, and returns are calculated on an equal-weighted basis.

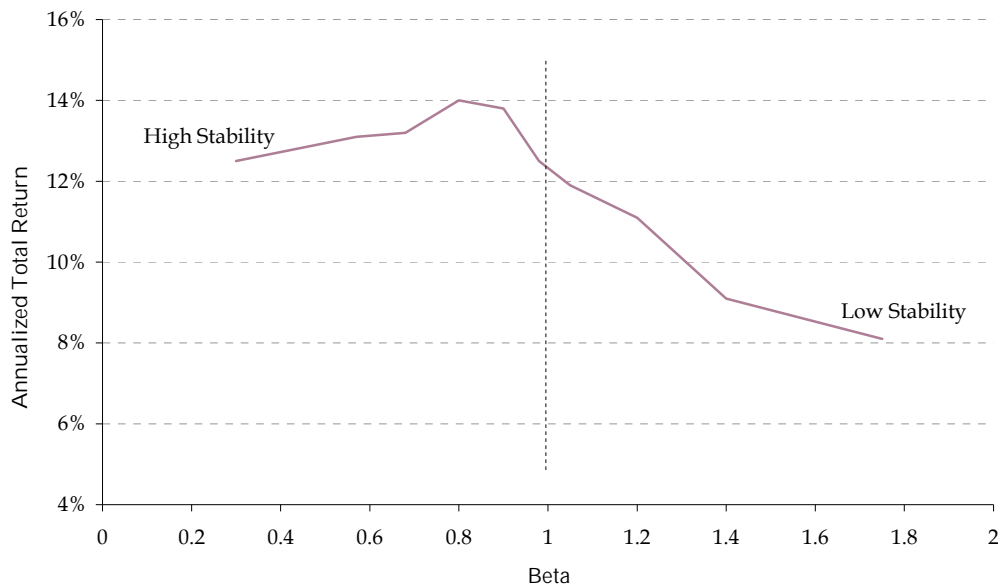
Stability

Stability refers broadly to stocks that exhibit low price or market volatility. While sharing several characteristics with quality, stability is considered to be distinct enough to have begun to generate separate lines of research.⁴ Currently, there is growing recognition that stability may be another important factor that may contribute to higher risk-adjusted equity returns (Baker et al., 2011; De Silva, 2010; Ang et al., 2008; Blitz and van Vliet, 2007). This is an especially interesting finding, because one of the basic assumptions of conventional financial theory is that stocks with greater price or market risk should give greater return. Many theories have been proposed to explain the anomaly, including behavioral biases that prompt investors to invest in lower-returning, risky stocks (see Kumar, 2009) and leverage or benchmarking constraints that make arbitrage difficult (see Baker et al., 2011).

The figures below summarize some findings on stability as a factor. Figure 9 breaks down stocks by “beta,” which measures how a stock moves with the broader equity market and is one measure of stability. Over the period from 1986 through 2007, those stocks that have low betas—which implies high stability—have significantly higher annualized returns than those with high betas.

⁴ See references section for a list of relevant publications.

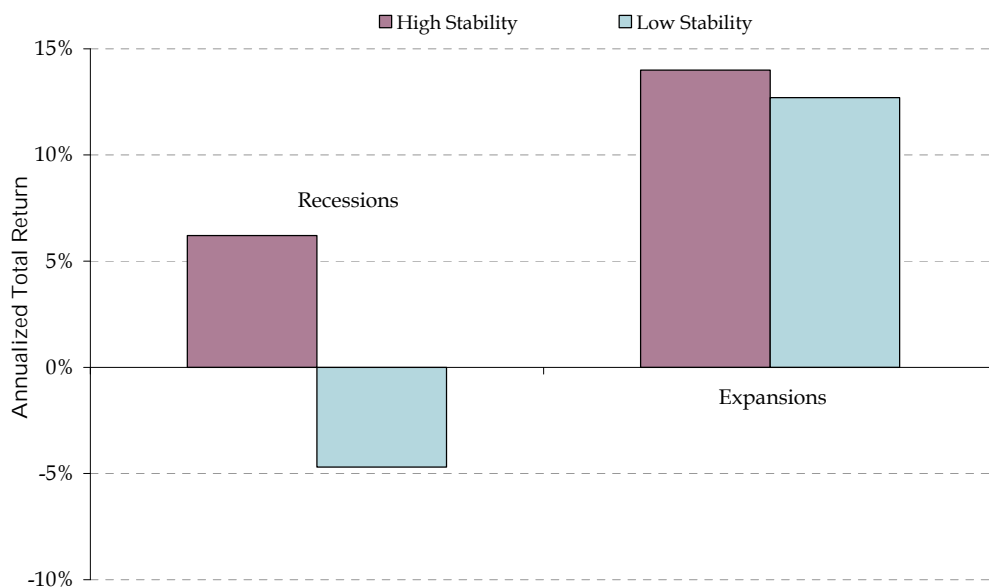
Figure 9. High Stability Performance



Source: SSgA; Deciles are composed of equal-weighted Russell 3000 stocks as broken down by beta from December 1986 to October 2007.

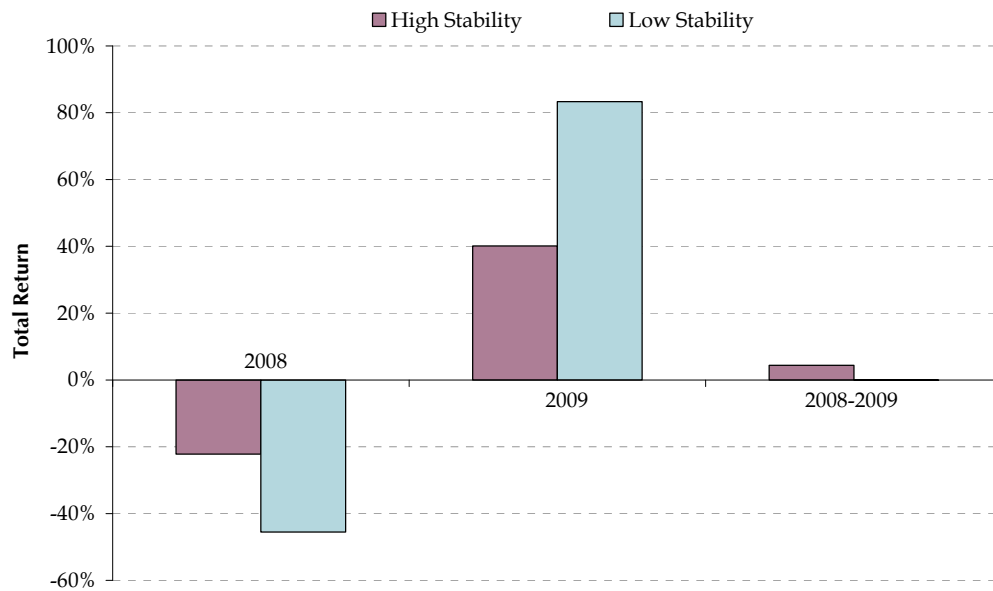
Figure 10 shows how high stability stocks perform relative to low stability stocks during recessions and expansions. From the period 1968 through 2005, high stability stocks generated a 6.2% annualized return during recessions—compared with -4.7% for low stability stocks. Of note, high stability stocks outperformed low stability stocks during expansions, too. And, similar to quality stocks, high stability stocks performed well during the 2008-2009 period as shown in Figure 11—outperforming during 2008’s crash and subsequently underperforming during 2009’s rally, but outperforming overall.

Figure 10. High Stability during Recessions and Expansions



Source: Clarke, de Silva, and Thorley; annualized average monthly return for the lowest/highest quintile of return volatility during NBER-declared recessions and expansions from 1968 through 2005.

Figure 11. High Stability during 2008-2009

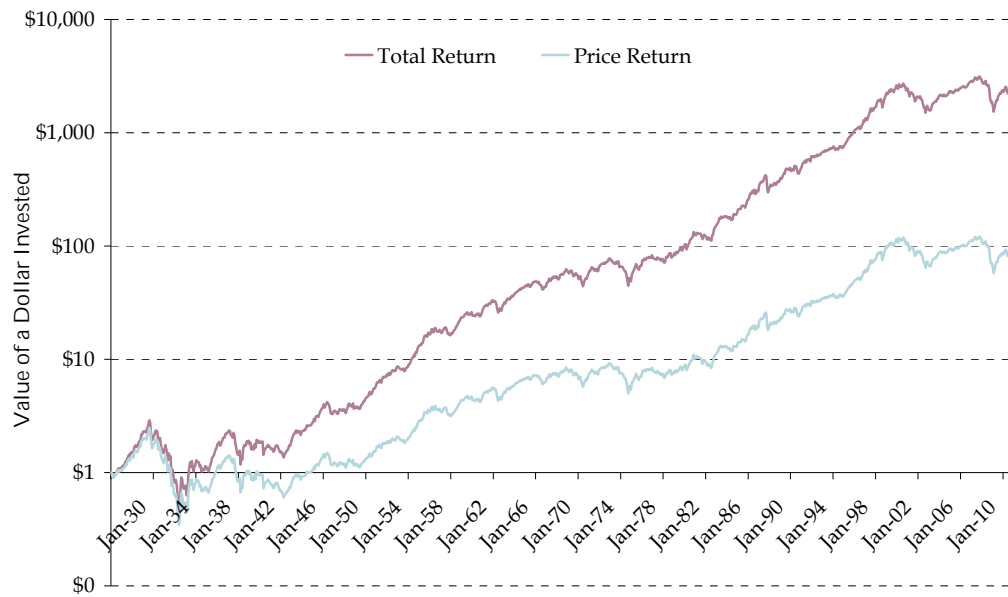


Source: Meketa Investment Group; High stability is defined as those Russell 3000 stocks below median beta, and returns are calculated on an equal-weighted basis.

Income

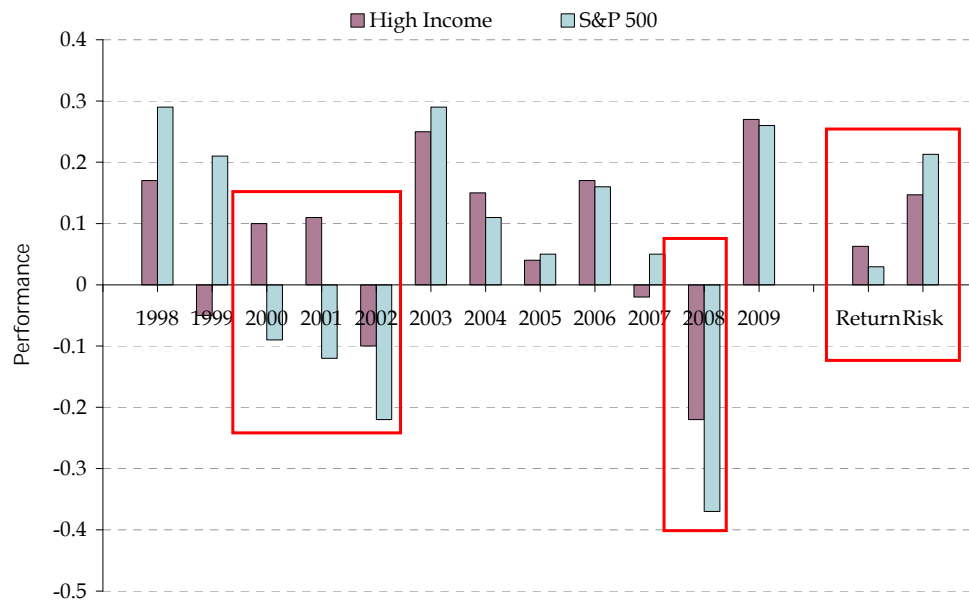
As Figure 12 shows, dividends have historically been a major contributor to equity returns; however, in recent history, dividends have constituted a smaller percentage of total return. Those companies who still offer high dividends tend to share many characteristics with high quality and high stability companies: consistency of dividends and earnings, stable operating models, and positive outlooks. It is no surprise, therefore, that investments in high income stocks have provided downside protection in tough markets (see Figure 13). Though high income stocks generally lagged the market during up years, risk-adjusted returns were higher over the entire period.

Figure 12. Dividends' Contribution to Total Return



Source: S&P 500, Global Financial Data

Figure 13. High Income Stocks during 1998-2009



Source: S&P; High Income is defined as those stocks which have above average and increasing dividends. Risk is defined as the standard deviation of annual returns.

THE VALUE OF QUALITY, STABILITY, AND INCOME

Our research into quality, stability, and income was prompted by our desire to find options to mitigate downside equity risk in a still fragile market environment without giving up a significant portion of the upside potential that equities usually possess. By conducting econometric tests on domestic stock performance during 2008 and 2009, we discovered that three factors representing quality, stability, and income had substantial and statistically significant effects on performance during those years. These results prompted a review of outside research on similar factors, which highlighted the value of a few additional QSI metrics that we believe may be valuable in some difficult markets prospectively.

At this point in our research, we felt that the investment approach was worth pursuing further. Therefore, from the Russell 3000 we developed a cap- and sector-neutral portfolio of stocks that were selected based on several factors related to quality, stability, and income (QSI) for backtesting purposes. Some characteristics of the 2010 QSI portfolio are presented in Tables 1 and 2.

Table 1. 2010 QSI Portfolio Capitalization Structure

Capitalization Structure: ⁵	QSI Portfolio June 2010	Russell 3000 June 2010
Number of issues	244	2,974
Weighted Average Market Cap. (US\$ billion)	52.0	58.8
Large (% over US\$10 billion)	69	69
Medium (% US\$1.5 billion to US\$10 billion)	24	24
Small (% under US\$1.5 billion)	7	7

Table 2. 2010 QSI Portfolio Summary Statistics

Fundamental Structure:	QSI Portfolio June 2010	Russell 3000 June 2010
Average Quality	A-	B+
Beta	0.78	1.0
Dividend Yield (%)	2.8	2.0
Price-to-Earnings	15	20
Price-to-Book	2.9	2.9
Debt-to-Equity (%)	49.8	129.6

As can be seen from Table 1, the QSI portfolio of 244⁶ stocks is cap-neutral, but is currently slightly skewed toward smaller issues (i.e., the weighted average market cap is lower than the benchmark). Table 2 indicates that the QSI portfolio is higher quality, higher stability (i.e., lower beta), and higher income than the Russell 3000 index. The QSI portfolio also has a slight value tilt given its lower price-to-earnings ratio (but the same price-to-book ratio).

⁵ Portfolio is designed to be approximately cap- and sector-neutral at time of reconstitution, and will deviate throughout the year.

⁶ The number of stocks will vary from year to year, but should generally be between 200 and 250.

Next, we backtested the QSI portfolio for as long a period as we felt we had useful data, which started in calendar year 2002. The backtested performance of the QSI portfolio methodology is shown in Figure 14.

Figure 14. QSI Performance during 2002-2009

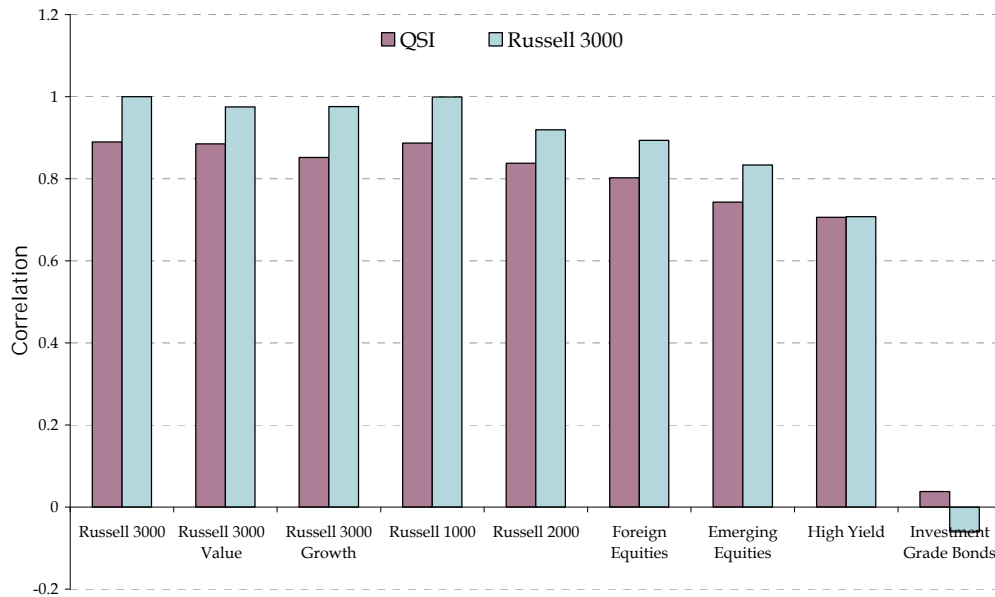


Source: Meketa Investment Group QSI portfolio backtest; risk is defined as the standard deviation of annual returns.

Backtested performance was as expected: the results demonstrated downside protection (76% downside capture) at the cost of sacrificing some upside (80% upside capture). Importantly, the QSI provided a better return over the combined period—4.5% versus 2.3%—with less risk. We do not believe that achieving a higher return should be a necessary expectation for an investor in a QSI portfolio, as they should (theoretically) be willing to accept modestly lower returns for a reduced risk level (as they do with an allocation to bonds).

As an added benefit, correlations with other risky asset classes were lower than for the Russell 3000 (see Figure 15). While the QSI portfolio's correlation with the Russell 3000 value was higher than with the Russell 3000 growth (0.89 vs. 0.85), the difference was not significant enough for us to be concerned that we had essentially replicated a value index. Furthermore, what slight value effect is present is arguably not enough to explain the risk-adjusted return we witnessed (see Clarke, de Silva, and Thorley, 2006; Thomas and Shapiro, 2009).

Figure 15. QSI Correlations



Source: Meketa Investment Group QSI portfolio backtest. Full period monthly correlations, July 2001 through June 2010.

Lower correlations with other risky assets imply that a QSI allocation may increase a portfolio's risk-adjusted returns not only through the potentially better characteristics of the QSI portfolio, but also through its dampening of portfolio-wide volatility.

RISKS

While portfolios that focus on quality, stability, or income factors may reduce equity risk, they are not riskless. For example, although the QSI portfolio substantially outperformed the market in 2008, it still declined 28%. And quality, stability, or income portfolios tend to lag substantially during up markets—and almost surely during major liquidity operations or “easy money” policies by the central bank. The rationale is simple: high quality companies do not need “easy money,” but low quality companies do. Therefore, the valuation of the lowest quality companies increases much more than quality companies when the central bank (and risk-taking, generally) drive the market.

This return behavior means that portfolios focused on quality, stability, or income have high tracking errors—in the range of 8-10%—similar to the tracking error of an actively managed small cap manager's portfolio. Comfort with substantial market deviations should be taken into consideration by any plan sponsor interested in implementing this type of strategy.

IMPLEMENTATION

Quality, stability, and income factors, while not new, are receiving increased attention by the investment community. Currently, there are several reasonable active and passive options; however, as far as we know, there are no options that combine all three factors into one product. Active strategies focused on one or more of these approaches will typically charge an active management fee ranging between 0.5% and 1.0%, as well as any attendant transaction and operational costs.

Passive strategies are primarily attractive because they are less expensive than active strategies. Furthermore, these strategies could serve as a benchmark for an active quality, stability, or income strategy. A sample of related passive strategies, including the QSI Index, is presented in Table 3.

Table 3. Passive Options

	Factors			Details			
	Q	S	I	Number of Stocks	Sector Neutral?	Cap Neutral?	Inception
S&P High Quality	X		X	100-200	No	No	6/2010
S&P Dividend Aristocrats		X	X	~50	No	No	11/2005
MSCI Minimum Volatility		X		Varies	No	No	4/2008
MSCI High Dividend Yield			X	Varies	No	No	9/2006
Russell Dividend Achievers		X	X	200-250	No	No	6/2009
Meketa QSI Index	X	X	X	200-250	Yes	Yes	11/2010

The QSI approach is attractive relative to some related passive options for several reasons. First, it is the only passive approach to combine all three factors. Second, it is broadly diversified, holding more than 200 stocks. Finally, because it is both cap and sector neutral, investors can take comfort that performance will not be driven by some other, unintended factor.

SUMMARY

Investing in high quality stocks that provide high income and perform well in adverse environments may be an attractive option for plan sponsors who wish to lessen their overall equity risk without sacrificing equity returns. There is substantial evidence that a focus on quality, stability, and income will limit the downside risk of an equity allocation. And, in today's environment characterized by relatively low expected risk-adjusted returns and elevated risk, investments in these stocks appear especially attractive. Nevertheless, such portfolios will experience a relatively high tracking error and will likely lag in up markets.

Provided that such an allocation fits within the overall objectives and constraints of their Funds, Meketa Investment Group recommends a strategic allocation to quality, stability, and income portfolios.

REFERENCES

- Ang, Andrew, Robert J. Hodrick, Yuhang Xing, Xiaoyan Zhang. "High Idiosyncratic Volatility and Low Returns: International and Further U.S. Evidence." NBER Working Paper, 2008.
- Baker, Malcolm, Brendan Bradley, and Jeffrey Wurgler. "Benchmarks as Limits to Arbitrage: Understanding the Low Volatility Anomaly." *Financial Analysts Journal* 67 2011: 40-54.
- Blitz, David C. and Pim van Vliet. "The Volatility Effect: Lower Risk without Lower Return." *ERIM Research in Management*, 2007.
- Clarke, Roger, Harindra de Silva, and Steven Thorley. "Minimum-Variance Portfolios in the U.S. Equity Market." *Journal of Portfolio Management* Fall 2006: 10-24.
- De Silva, Harindra. "Low Volatility Equity Portfolios: A Free Lunch?" *Analytic Investors Presentation*, 2010.
- Frazzini, Andrea and Lasse H. Pedersen. "Betting against Beta." NBER Working Paper, 2010.
- Kumar, Alok. "Who Gambles in the Stock Market?" *Notre Dame Working Paper*, 2009.
- Parker, Adam S. et al. "Can Quality Stocks Outperform in an Up Market?" *Bernstein Research*, 2009.
- Smith, Brian K. "The Third Dimension: An Investor's Guide to Understanding the Impact of 'Quality' on Portfolio Performance." *Atlanta Capital White Paper*, 2010.
- Santicchia, Massimo and Philip G. Murphy. "S&P's Quality Rankings: Portfolio Performance, Risk, and Fundamental Analysis." *S&P White Paper*, 2005.
- Soe, Aye and Dave Guarino. "Is High Quality Always Better?" *S&P White Paper*, 2010.
- Thomas, Ric and Robert Shapiro. "Managed Volatility: A New Approach to Equity Investing." *SSgA White Paper*, 2009.
- Viceira, Luis, and Helen H. Tung. "Martingale Asset Management L.P. in 2008, 130/30 Funds and a Low Volatility Strategy." *HBS Case No. 9-209-047*, 2008.

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ABSTRACT

In this paper, we address how much of an investment fund's portfolio should be strategically allocated to Treasury Inflation Protected Securities (TIPS). Overall, Meketa Investment Group recommends that for (a) moderately risky or balanced portfolios, TIPS should constitute 5 to 15% of the entire portfolio, or roughly 15 to 35% of the bond sub-portfolio, and for (b) conservative portfolios, TIPS should constitute approximately 30 to 50% of the entire portfolio, or roughly 40 to 60% of the bond sub-portfolio.

INFLATION-LINKED BONDS

Unlike nominal bonds, inflation-linked bonds guarantee an inflation-adjusted return if held to maturity. The expected nominal yield for a government bond consists of three components: the expected rate of inflation, the inflation risk premium, and the real interest rate. Because an inflation-linked bond eliminates the risk associated with uncertainty over inflation, its yield does not include the inflation risk premium. Consequently, the expected nominal yield provided by an inflation-linked bond consists of only the expected rate of inflation and the real interest rate.¹

History of Inflation-Linked Bonds

The U.S. government first issued Treasury Inflation-Protected Securities (TIPS) in 1997. However, the U.S. was not the first country in modern times to issue inflation-linked bonds. For example, the U.K. first issued "linkers," as they are commonly called, in 1981, while Australia and Canada followed suit in 1985 and 1991, respectively. Presently, more than twenty countries now offer some form of inflation-linked bonds. Though the mechanics of each country's inflation-linked bonds differ, the concept is the same: investors are guaranteed an inflation-adjusted return. Notably, as of the end of 2007 roughly 10% of the outstanding value of world government debt was inflation-linked, up from 3% in 1997 (Mauro and Hopkins, 2008).

U.S. TIPS

With one important difference, TIPS are identical to traditional U.S. Treasury securities. Traditional U.S. Treasuries pay a specified rate of income (via a coupon payment) and return the owner's principal at the stated maturity date. Likewise, TIPS also pay income and return the owner's principal at the stated maturity date. And, as with traditional Treasuries, the full faith and credit of the U.S. government backs TIPS. However, unlike that of a traditional Treasury, the principal value—and thus the coupon payment—of TIPS is adjusted to reflect inflation at the consumer price level, as measured by the Consumer Price Index (CPI-U).²

¹ Note that at their introduction, inflation-linked bonds are usually far less liquid than their nominal counterparts. This implies that there is a liquidity premium associated with inflation-linked bonds relative to their nominal counterparts (Carlstrom and Fuerst, 2004).

² For more information regarding the computation of the inflation adjustment, see Gürkaynak, Sack, and Wright (2007). For more information regarding the CPI-U, see the Bureau of Labor Statistics (www.bls.gov).

CHARACTERISTICS OF TIPS

Expected Nominal Returns

A simple way to estimate the expected nominal return for an inflation-protected security is to add its present yield to the expected rate of inflation over its maturity. For example, on July 1st, 2008 the real yield for the 10-year TIPS was approximately 1.39%. At that time, the Survey of Professional Forecasters predicted that the CPI-U would average 2.50% over the next ten years.³ Therefore, a buyer of a 10-year TIPS could expect a nominal return of $(1.39 + 2.50 =) 3.89\%$ over the subsequent ten years.

In contrast, a buyer of a 10-year traditional Treasury bond would receive a nominal return of 3.95% over ten years. The 0.06% difference in yield can be attributed to the net effect of both an inflation risk premium for Treasuries and a liquidity premium for TIPS (see footnote 1). In this example, it appears as though the inflation risk premium dominates the liquidity premium by 0.06%. This is roughly in line with academic work which suggests that the inflation and liquidity premiums are equal to 0.6% and 0.5%, respectively (Durham, 2006; Campbell and Shiller, 1996; D'Amico et al., 2007).

As the market for TIPS becomes deeper (i.e., more liquid) the liquidity premium TIPS enjoy relative to Treasuries should diminish.⁴ However, the inflation risk premium will remain as a structural feature of traditional Treasuries. Therefore, as time goes on, the difference in nominal yields between Treasuries and TIPS of the same maturity should approach the inflation risk premium.

Inflation Risk Premium

Since over the longer term the only difference in nominal yields between Treasuries and TIPS should be the inflation risk premium, it makes sense to consider what might increase or decrease this premium. This is because changes in the amount investors are willing to pay for inflation protection will directly affect the relative pricing of TIPS and Treasuries: when the inflation risk premium goes up (down), then Treasuries should lose (gain) value relative to TIPS, all else equal. Furthermore, the inflation risk premium appears to vary considerably with investor sentiment: studies have found that volatility in the inflation risk premium is substantial, ranging from 0.3% to 1.0% (Campbell and Shiller, 1996; Durham, 2006; D'Amico et al., 2007).

Intuitively, investors should be willing to pay a higher inflation risk premium when they expect future inflation to be especially volatile; or, more specifically, when they believe that likelihood of having inflation exceed their expectation is high. Behavioral finance suggests that periods of rising (falling) inflation will cause investors to overestimate the likelihood of further increases (decreases), with a commensurate increase (decrease) in the inflation risk premium. This intuition is corroborated by the fact that, globally, the inflation risk premium

³ Survey of Professional Forecasters, 2nd Quarter 2008. Federal Reserve Bank of Philadelphia, www.philadelphiafed.org/files/spf/survq208.html.

⁴ For evidence that suggests the liquidity premium for TIPS has dropped substantially, see D'Amico et al. (2007).

has gradually shrunk for countries that have issued inflation-linked bonds. This decline accompanied a marked decrease in inflation over most of the developed world, indicating that investors may have become accustomed to stable and gradually declining inflation.

Volatility

At first blush, one would expect TIPS to be less volatile than Treasuries, whose prices must reflect investors' expectations about inflation and their willingness to assume inflation risk. However, actual returns have indicated otherwise: the annualized standard deviation of monthly returns is 5.1% for TIPS versus 4.5% for Treasuries during the period from March 1997 through June 2008.⁵ What's more, sub-samples of the time period reveal the same counterintuitive relationship.

The conundrum may be resolved by noting that expectations regarding the future real interest rate and inflation rate are probably negatively correlated. That is, a high (low) expected real interest rate may serve as a brake on economic growth, thereby discouraging (encouraging) inflation. To the extent that the inflation risk premium does not vary drastically, this negative correlation serves as a dampening mechanism that may cause Treasuries to be less volatile than TIPS.

For example, assume that initially investors expect future real interest rate of 2% and inflation of 3%, for a nominal yield of 5%. (For the sake of simplicity, also assume that the inflation risk premium is 0%.) In this case, TIPS are priced at a 2% yield and Treasuries at a 5% yield. After a shock to the economy, investors now expect a future real interest rate of 1%, which they believe will stoke future inflation to 4%. Now, TIPS are priced higher at a 1% yield and Treasuries remain at a 5% yield. Based on this simple price history, TIPS are more volatile. Therefore, in consideration of history and this theoretical example, we set the expected annual standard deviation for TIPS at approximately 0.5% more than that for nominal Treasuries.

One would also expect TIPS to be more volatile than cash, as prices for TIPS must reflect investors' expectations about future real interest rates. This has indeed been the case since their introduction: the annualized standard deviation of monthly returns was 5.1% for TIPS versus 0.5% for cash during the period from March 1997 through June 2008.⁶

Correlations

The correlation of monthly returns between TIPS and various other asset classes are shown in the following table.

⁵ Source: Merrill Lynch TIPS Index; Lehman Treasury Index.

⁶ Source: Merrill Lynch TIPS Index; 30-day T-Bill Index.

Correlation Matrix
(March 1997 – June 2008)⁷

	TIPS	Bonds	Stocks	Inflation
TIPS	1.00			
Bonds	0.77	1.00		
Stocks	-0.24	-0.14	1.00	
Inflation	0.05	-0.12	-0.10	1.00

From 1997 to 2008, TIPS exhibited a positive correlation with bonds. This makes intuitive sense because both are similarly affected by changes in expectations about future real interest rates. (Note that changes in the inflation outlook prevent the correlation from being perfect.)

Next, TIPS exhibited a negative correlation with stocks. This also makes intuitive sense, because fixed-income securities generally perform better (worse) than stocks in times of economic weakness (strength), hence the negative correlation between both TIPS and bonds with stocks.

Finally, TIPS exhibited a slight positive correlation with inflation.⁸ Although it is too slight to draw firm conclusions, this positive correlation may make intuitive sense. In times of rising inflation, investors should be willing to pay more for inflation insurance. An increase in this premium should be directly manifested in decreased demand for nominal fixed-income securities, hence the negative correlation of bonds and inflation. The money slated for nominal bonds must go somewhere, and TIPS may be the logical alternative investment. Thus, TIPS may benefit from the rotation out of nominal fixed-income securities during times of increasing inflation.

Relative Performance in Various Economic Scenarios

Regarding the relative performance of TIPS compared with those of nominal bonds and stocks, there are six economic scenarios worth considering. Given the factors that influence the yield on TIPS and its counterparts, two economic dimensions are especially relevant for categorizing these scenarios: inflation and growth. Different instances of these two dimensions help define six relevant economics scenarios, as seen in the following table. For the sake of this discussion, “high/stable” and “low” growth means growth above or equal to and below the real growth potential of the economy, respectively. In the U.S., real GDP growth potential is often assumed to be 3%.⁹ Using theory and intuition, one can rank the performance of each asset class under each of the six scenarios.

⁷ Source: Merrill Lynch TIPS Index; Lehman Aggregate Index; Wilshire 5000 Index; CPI-U.

⁸ This result holds true even when lagging CPI-U for 3 and 6 months.

⁹ For this discussion, assume that GDP growth is a reliable proxy for the business cycle.

Scenario	TIPS	Bonds	Stocks
Increasing inflation and High/Stable growth	2	3	1
Low growth	1	2	3
Stable inflation and High/Stable growth	3	2	1
Low growth	2	1	3
Decreasing inflation and High/Stable growth	3	2	1
Low growth	2	1	3

1. Increasing inflation and stable-to-high growth describes a strong but possibly “overheating” economy. During these periods, stocks should perform the best as excellent productivity gains lead to superb earnings growth. As real interest rates may also be increasing, fixed-income securities should suffer. In addition, increasing inflation should prompt investors to pay increasingly more for inflation insurance, thereby further eroding the returns of nominal bonds. Hence, stocks should perform best, followed by TIPS, then nominal bonds.
2. Increasing inflation and low growth describes a weak, “stagflationary” economy. During these periods, stocks should perform the worst as low or declining productivity gains lead to substandard earnings growth. As real interest rates are probably decreasing, fixed-income securities overall should benefit. In addition, increasing inflation should prompt investors to pay increasingly more for inflation insurance, thereby attenuating the returns of nominal bonds. Hence, TIPS should perform best, followed by nominal bonds, then finally stocks.
3. Stable inflation and stable-to-high growth describes a strong economy. During these periods, stocks should perform the best as excellent productivity gains lead to superb earnings growth. As real interest rates may also be increasing, fixed-income securities overall should perform less well. What’s more, stable inflation may indicate a stable inflation risk premium. Hence, stocks should perform best, followed by nominal bonds, and then finally TIPS.
4. Stable inflation and low growth describes a moderately weak economy. During these periods, stocks should perform the worst as low or declining productivity gains lead to substandard earnings growth. As real interest rates are probably decreasing, fixed-income securities overall should benefit. Additionally, stable inflation may indicate a stable inflation risk premium. Hence, nominal bonds should perform best, followed by TIPS, then finally stocks.
5. Decreasing inflation and stable-to-high growth describes a strong, “goldilocks” economy. During these periods stocks should perform the best as excellent productivity gains lead to superb earnings growth. As real interest rates are probably also increasing, fixed-income securities overall should perform less well. In addition, declining inflation should prompt investors to pay increasingly less for inflation insurance, thereby boosting the returns of nominal

bonds relative to TIPS. Hence, stocks should perform best, followed by nominal bonds, and then finally TIPS.

6. Decreasing inflation and low growth describes a weak, “deflationary” economy. During these periods, stocks should perform the worst as low or declining productivity gains lead to substandard earnings growth. As real interest rates are probably decreasing, fixed-income securities overall should benefit. In addition, declining inflation should prompt investors to pay increasingly less for inflation insurance, thereby boosting the returns of nominal bonds. Hence, nominal bonds should perform best, followed by TIPS, then finally stocks.

Note that periods of unstable (or volatile) inflation have not been included. This is because periods of volatile inflation should generate rankings similar to that of increasing inflation. Both periods should be associated with an increase in inflation risk premiums, as investors forecast a higher probability of inflation exceeding their initial expectations.

Since the introduction of TIPS, the U.S. economy has experienced most of the above economic scenarios lasting at least six months. These scenarios, including the total returns of each of the above three asset classes, are presented below.

Period	Scenario	TIPS	Bonds	Stocks	Predicts?
March 1997 - April 1998	Decreasing Inflation/ High Growth	2.78%	11.33%	42.89%	Y
May 1998 - January 1999	Stable inflation/ High Growth	4.40%	7.22%	11.66%	Y
February 1999 - July 2000	Increasing Inflation/ High Growth	9.09%	3.32%	15.77%	Y
August 2000 - February 2001	Stable Inflation/ Low Growth	9.15%	9.07%	- 13.79%	N
March 2001 - March 2002	Decreasing Inflation/ Low Growth	5.46%	5.87%	-4.36%	Y
July 2002 - March 2003	Increasing Inflation/ Low Growth	11.67%	7.71%	- 13.07%	Y
April 2003 - March 2004	Decreasing Inflation/ Stable Growth	10.93%	5.40%	39.37%	N
April 2004 - July 2006	Increasing Inflation/ Stable Growth	6.01%	4.76%	20.41%	Y
December 2006 - May 2008	Increasing Inflation/ Low Growth	12.53%	7.63%	3.62%	Y

The last column indicates that in seven of the nine cases, the model accurately predicts the relative performance of the three asset classes. Admittedly, these period categorizations are rough, though changing the beginning and end months do not affect the results in general. And, of course, several exogenous factors may have affected relative returns, such as a sustained decrease in the liquidity premium for TIPS and the “flight to quality” during the

debt crises of the late 1990s and the bear market of the early 2000's. Nevertheless, these results give confidence in the hypothesized relative performance described above.

Putting it all together, over their history TIPS have been much more volatile than cash and slightly more volatile than Treasuries. In addition, TIPS have been more negatively correlated with stocks than nominal bonds, while having maintained a slight positive correlation with inflation. Theoretically, TIPS should outperform their nominal counterparts during periods of increasing (or unstable) inflation, while still enjoying the benefits of fixed-income securities during periods of low economic growth or flights to quality. Thus, TIPS as an asset class should provide meaningful portfolio diversification.

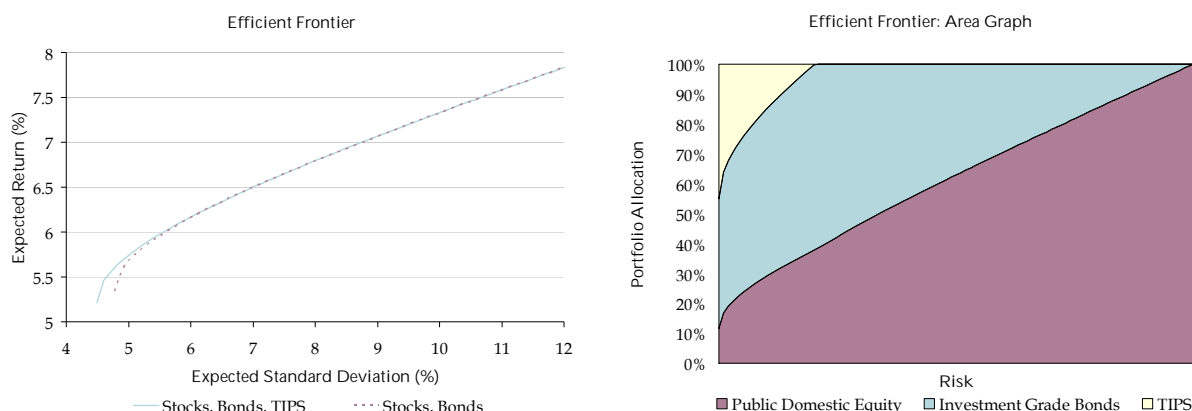
PORTFOLIO ROLE

Total Portfolio Context

In diversified investment programs, traditional bonds mitigate equity volatility and provide a predictable level of income. Over most time periods, high quality bonds provide a modest return in excess of the rate of inflation. However, when actual inflation significantly exceeds investor expectations of inflation, nominal bond returns may suffer. As discussed above, it is in these cases where TIPS can benefit investors the most.

In the following figure, the chart on the left compares an efficient frontier of a portfolio comprised solely of U.S. stocks and nominal bonds to an efficient frontier of a portfolio comprised of U.S. stocks, nominal bonds, and TIPS.¹⁰ Note that the efficient frontier including TIPS is upward and to the left of the efficient frontier excluding TIPS, suggesting that TIPS may help achieve more efficient portfolios. This is especially true for more risk adverse investors. The chart on the right shows the allocation to each of the three asset classes for every portfolio on the efficient frontier. The mean-variance optimization indicates that TIPS play a prominent role in less risky portfolios, but that their role diminishes as risk increases.

¹⁰ The efficient frontier analysis uses inputs from Meketa Investment Group's 2008 Annual Asset Study combined with the historical correlations among the three asset classes contained in this paper.



Impact in Balanced and Conservative Portfolios

Shifting assets from higher yielding nominal bonds to TIPS will make most portfolios more efficient, though its impact will be greater the more conservative the portfolio. As shown in the following table, a moderately risky or balanced portfolio – loosely defined as a 60-40 mix of U.S. stocks and bonds—benefits from increasing allocations to TIPS in its bond sub-portfolio. However, the ratio of expected return to expected annual standard deviation increases only mildly, from 0.742 for a 60-40-0 allocation to 0.760 for a 60-0-40 allocation. This represents a total efficiency change of $((0.760 - 0.742) / 0.742 =) 2.4\%$.

At the same time, an investor gives up a 7.28% expected return for a 60-40-0 allocation for a 7.08% return for a 60-0-40 allocation. Thus, the efficiency gains come at a “cost”: for example, the 0.4% gain in efficiency moving from a 60-40-0 portfolio to a 60-35-5 portfolio costs $(7.28\% - 7.25\% =) 3$ basis points (bp). Dividing the return cost by the percentage efficiency change gives an average efficiency cost, which indicates how many basis points must be spent to increase efficiency by 1% by an investor who moves from a 60-40-0 portfolio to a given mix with TIPS. Note that average return cost is susceptible to rounding errors, so direct comparisons across the different portfolio mixes should be taken lightly.

Stocks-Bonds-TIPS (%):	60-40-0	60-35-5	60-30-10	60-25-15	60-20-20	60-0-40
U.S. Stocks	60%	60%	60%	60%	60%	60%
Bonds	40%	35%	30%	25%	20%	0%
TIPS	0%	5%	10%	15%	20%	40%
Expected Return	7.28%	7.25%	7.23%	7.20%	7.18%	7.08%
Expected Std. Dev.	9.81%	9.73%	9.67%	9.60%	9.54%	9.32%
Return-Risk Ratio	0.742	0.745	0.748	0.750	0.753	0.760
Efficiency Change (%)	--	0.4%	0.8%	1.1%	1.5%	2.4%
Avg. Return Cost (bp/%)	--	7.5	6.3	7.3	6.7	8.3

Increasing allocations to TIPS within an already conservation portfolio – loosely defined as a 20-80 mix of U.S. stocks and bonds – has a larger impact on efficiency. As the following table shows, increasing the allocation of TIPS from 0% of the full portfolio to 40% (or half of the

bond sub-portfolio) raises the ratio of expected return to standard deviation from 1.12 to 1.18 – a 5.4% gain in efficiency. This compares favorably with the meager efficiency gains attained in the balanced portfolio case. This increase in efficiency comes at a cost of only 20 basis points in expected return, yielding an average return cost of 3.7 bp/%. Again, this compares favorably with the relatively expensive average return costs in the balanced portfolio cases.

However, note that increasing the TIPS allocation beyond 40% of the full portfolio diminishes efficiency relative to the 20-40-40 portfolio. Hence, as opposed to the balanced portfolio case, it does not appear advisable to increase a TIPS allocation beyond roughly 40% (or half of a conservative fund's bond sub-portfolio).

Stocks-Bonds-TIPS (%):	20-80-0	20-60-20	20-40-40	20-60-20	20-0-80
U.S. Stocks	20%	20%	20%	20%	20%
Bonds	80%	60%	40%	60%	0%
TIPS	0%	20%	40%	20%	80%
Expected Return	5.76%	5.66%	5.56%	5.46%	5.36%
Expected Std. Dev.	5.12%	4.87%	4.72%	4.69%	4.78%
Return-Risk Ratio	1.12	1.16	1.18	1.16	1.12
Efficiency Change (%)	--	3.6%	5.4%	3.6%	0%
Avg. Return Cost (bp/%)	--	2.8	3.7	8.3	infinite

In sum, we recommend that; a) for moderately risky or balanced portfolios, TIPS constitute 5 to 15% of the entire portfolio, or roughly 15 to 35% of the bond sub-portfolio, and b) for conservative portfolios, TIPS constitute approximately 30 to 50% of the entire portfolio, or roughly 40 to 60% of the bond sub-portfolio. In the first case, we believe that 5 to 15% is the appropriate allocation because the cost of the efficiency gains is relatively high in balanced portfolios. In the second case, we believe that 30 to 50% is the appropriate allocation because this represents the range of peak efficiency, and efficiency is relatively cheap.

Inflation Hedge

Over long-term periods, investments in real assets such as equities and real estate will likely protect investors from inflation by appreciating in value in excess of the rate of inflation. This is because as the prices of goods and services increase, the prices of these assets will also increase. However, over the short term inflation produces major dislocations that can result in very unpredictable investment returns. Thus, while equities have proven to be a good long-term hedge against inflation, in the short-term equity prices usually react negatively to inflation. Since TIPS react positively to inflation, an investor may consider TIPS as a hedge against inflation for all time periods.

Furthermore, since TIPS guarantee an inflation-adjusted income, they may be the most appropriate asset for investors who have at least a portion of their liabilities exposed to inflation. There are many such investors. Defined benefit plans offer a cost of living

adjustment possess liabilities that are explicitly linked to inflation. Similarly, endowments and foundations must adjust to rising salaries and other relevant costs. By owning TIPS, these funds can more closely match their assets to their real liabilities.

It may be argued that investors in the U.S. have become desensitized to the effects of inflation as a result of the extended environment of disinflation since the early 1980s. During this period, the central bank has made it their primary objective to constrain inflation. However, circumstances since the middle of this decade suggest that the U.S. central bank is less focused on controlling inflation. Furthermore, structural features of the global economy may indicate rising dollar inflation in the longer term. Thus, an investor must be ever wary of inflation risks.

It is also important to note that the inflation adjustment is based on changes in the CPI-U, which is a price index corresponding to the average market basket of goods and services purchased by U.S. urban consumers. The urban consumers' basket may not be directly relevant to a specific investor's basket. For example, a university may spend more annually on real estate development than the average urban consumer. In these cases, the inflation adjustment will only be approximate—indeed, real purchasing power could be eroded considerably to the extent that the investor's basket differs markedly from the urban consumers' basket.

MISCELLANEOUS

Duration

Duration is often defined as a bond's sensitivity to a change in (nominal) interest rates. Theoretically, duration can be broken into two primary components: sensitivity to changes in real interest rates and sensitivity to changes in the expected inflation rate. Since TIPS provide an inflation-adjusted return, their sensitivity to the latter is zero. Hence, the duration for inflation-linked bonds measures their sensitivity to a change in real interest rates only. The aggregate TIPS market exhibited a duration of approximately seven years in mid-2008 when evaluated in terms of real interest rates.

Duration is not as meaningful a tool for TIPS portfolios as it is for nominal bonds, because an investor cannot discern the root cause of a shift in nominal rates. Hence, the nominal duration for TIPS can range between zero and their duration in real terms. In other words, it is impossible to accurately predict the sensitivity of a portfolio of TIPS to a change in nominal interest rates (Roll, 2003).

Thus, incorporating the duration of a TIPS portfolio into the calculation of duration for an aggregate bond portfolio is misleading because it conflates two different constructs. Therefore, an investor who has a dedicated allocation to TIPS should consider excluding them when calculating the duration of their aggregate bond portfolio.

Yield

Because TIPS are quoted in terms of a real yield, it is similarly misleading to compare them to the nominal yields of an aggregate bond portfolio. If it is imperative to estimate a nominal yield for TIPS, the investor can do so by adding the most appropriate long-term inflation expectation to the real yield. Note that this involves some estimation error.

TIPS should generally offer a lower nominal yield than mortgage-backed securities, corporate debt, or other fixed income securities that possess credit risk. Hence, an increased allocation to TIPS will reduce the nominal yield of a diversified bond portfolio.

Quality

Because TIPS are issued and backed by the U.S. government, they possess no credit risk and are considered to be of the same quality as nominal Treasuries. Hence, an increased allocation to TIPS will increase the quality of a diversified bond portfolio.

IMPLEMENTATION ISSUES

Market Liquidity

As of June 2008, the market value of the twenty-seven outstanding TIPS issues was roughly \$450 billion, representing about 16% of the total outstanding issuance of the U.S. Treasury. TIPS are currently auctioned four times per year.¹¹ The TIPS market is not as liquid as that for nominal Treasury bonds, which is the most liquid market in the world. This is due to several causes: the smaller size of the TIPS market, the fact that TIPS constitute a non-benchmark investment for many bond managers, and TIPS' attractiveness as a buy-and-hold investment. Consequently, it is slightly more expensive to trade TIPS than it is to trade Treasuries. On the other hand, the TIPS market is more liquid than that for most investment grade corporate bonds.

Historically, the trading spread has been approximately 0.06% ($1/16^{\text{th}}$) of principal value for TIPS, versus approximately 0.03% ($1/32^{\text{nd}}$) for Treasuries (Sack and Elsassner, 2004). Therefore, for every trade, Treasuries have a one-time 0.03% advantage. On the other hand, TIPS have a significant trading advantage over high quality corporate bonds, which usually trade with a bid-ask spread of at least 0.25% ($1/4^{\text{th}}$) (Chen et al., 2007). Of course, it is possible that during periods of high volatility the spreads for TIPS could widen, but if this occurs it would likely be a temporary phenomenon.

¹¹ For more information on recent and future auctions, see www.savingsbonds.gov/instit/annnceresult/press/press_secannpr.htm.

Passive and Active Management

Passive investors in TIPS resign themselves to the income due to them by the Treasury. They may either buy an individual issue at auction, or invest in a TIPS index. In the latter case, the passive investor accepts the term structure of the TIPS indexes. Or, a passive investor may design a term structure better suited to the term structure of their liabilities.

On the other hand, active investors in TIPS seek to consistently augment a passive return by intelligent trading. These active managers are almost always measured against the TIPS benchmark indexes, discussed below.

An active TIPS manager may try to outperform a TIPS benchmark by managing the term structure of his portfolio. Hence, a manager may employ a bullet or barbell strategy or may make modest real interest rate bets through changes to the portfolio's real duration.

Another means of adding value includes making a relative value decision between TIPS and nominal Treasuries, swapping between these instruments accordingly. However, note that too much exposure to nominal Treasuries would defeat the purpose of a strategic allocation to TIPS.

Finally, a manager may try to add value by investing in other inflation-linked bonds, such as those issued by U.S. corporations or foreign governments. Investments in the former may offer additional yield at the expense of credit risk and limited liquidity. Investment in the latter may be a relative value decision between real rates in the U.S. versus those in foreign countries. However, while foreign real rates may look attractive, it is important to note that these inflation-linked bonds track inflation in those countries, which can differ significantly from U.S. inflation. This would be undesirable to an investor seeking to hedge their U.S. dollar-denominated liabilities.

In our opinion, there is little potential for an active manager to add value; at best, outperformance may equal 50 basis points.

Benchmark

There are several benchmarks appropriate for TIPS investors. The two most commonly used are the Merrill Lynch U.S. Treasury Inflation-Linked Securities index and the Lehman Brothers U.S. TIPS index. The differences in methodology between these indices are subtle and should result in return dispersion of only a few basis points per month. The Merrill Lynch U.S. Treasury Inflation-Linked Securities index is rebalanced on the last calendar day of the month, as is the Lehman TIPS index. Both indices only include TIPS that have at least one year remaining to final maturity.

Alternatively, if an investor is structuring a custom TIPS portfolio, a custom index may be constructed using the appropriate issues. For example, an investor concerned only about near-term inflation may invest only in TIPS maturing in the next five years and would construct a benchmark accordingly.

Timing

Even sophisticated investors frequently err in presuming that the recent past will persist indefinitely. During the first year that TIPS were issued, the U.S. inflation rate fell from 2.8% to 1.4%. Because TIPS tend to underperform Treasuries when the rate of inflation declines, early TIPS investors experienced relatively weak performance (see earlier table).

More broadly, the annual rate of inflation fell from 13.3% in 1979 to 2.1% in 2003. This sustained decline in inflation surely led some to expect persistently falling inflation. These expectations may have depressed the prices of TIPS to unusually attractive levels early in their existence.

More recently, TIPS have proven their attractiveness during inflationary times. Though the long-run forecast for inflation remains around 2.5% according to the Survey of Professional Forecasters, there are sound reasons to believe that inflation could get significantly worse. This should cause TIPS to be more attractive than Treasuries going forward. Indeed, during the period of rising inflation from December 2006 to June 2008, TIPS have returned 12.5% compared to 7.6% for Treasuries.

Note that because TIPS exhibit lower volatility than most asset classes, the risk of mistiming an entry into the TIPS market is not as high as it would be with most other assets.

Vehicle

Investors willing to accept the term structure offered by the market (or the Treasury) may invest in a commingled vehicle that is charged with matching or slightly outperforming the index, net of fees. Because the potential to add value is minimal, low fees are essential to meeting this goal.

Alternatively, if an investor seeks a custom portfolio, a separate account structure must be utilized. In this case, the investment manager would construct a portfolio to match the liability or inflation requirements of the investor. This portfolio could be actively traded or treated as a buy-and-hold portfolio.

SUMMARY AND RECOMMENDATION

TIPS have risk and return patterns that differ from those of stocks or traditional bonds, and thus provide valuable diversification to both long-term and short-term investment funds. An investment in TIPS would likely produce very attractive gains in a rising or unstable inflation environment, offsetting any losses in stocks and traditional bonds. Furthermore, they provide investors the ability to match their assets with their real liabilities. TIPS ultimately benefit investors by acting as an insurance policy against unexpectedly high inflation.

In summary, Meketa Investment Group recommends that for (a) moderately risky or balanced portfolios, TIPS constitute 5 to 15% of the entire portfolio, or roughly 15 to 35% of the bond sub-portfolio, and for (b) conservative portfolios, TIPS constitute approximately 30 to 0% of the entire portfolio, or roughly 40 to 60% of the bond sub-portfolio.

REFERENCES

- Campbell, John Y. and Robert J. Shiller. "A Scorecard for Indexed Government Debt." NBER Macroeconomics Annual 11 (1996): 155-197.
- Carlstrom, Charles T. and Timothy S. Fuerst. "Expected Inflation and TIPS." Federal Reserve Bank of Cleveland (2004).
- Chen, Long, David A. Lesmond, and Jason Wei. "Corporate Yield Spreads and Bond Liquidity." The Journal of Finance 42 (2007): 119-149.
- D'Amico, Stefania, Don H. Kim and Min Wei. "TIPS from TIPS: The Informational Content of Treasury Inflation-Protected Security Prices." Working Paper (2007).
- Durham, J. Benson. "An Estimate of the Inflation Risk Premium Using a Three-Factor Affine Term Structure Model." Finance and Economics Discussion Series. Federal Reserve Board, Washington, D.C. (2006).
- Gürkaynak, Refet S., Brian Sack, and Jonathan H. Wright. "The TIPS Yield Curve and Inflation Compensation." Finance and Economics Discussion Series. Federal Reserve Board, Washington, D.C. (2007).
- Mauro, James and Jim Hopkins. "Global Linkers versus U.S. TIPS." Fixed Income Essay & Presentation. State Street Global Advisors (2008).
- Sack, Brian and Robert Elsasser. "Treasury Inflation-Indexed Debt: A Review of the U.S. Experience." Federal Reserve Bank of New York (2004).

APPENDIX I

MEKETA INVESTMENT GROUP

SAMPLE PRESENTATION ON INVESTMENT EDUCATION

Education on Bank Loans

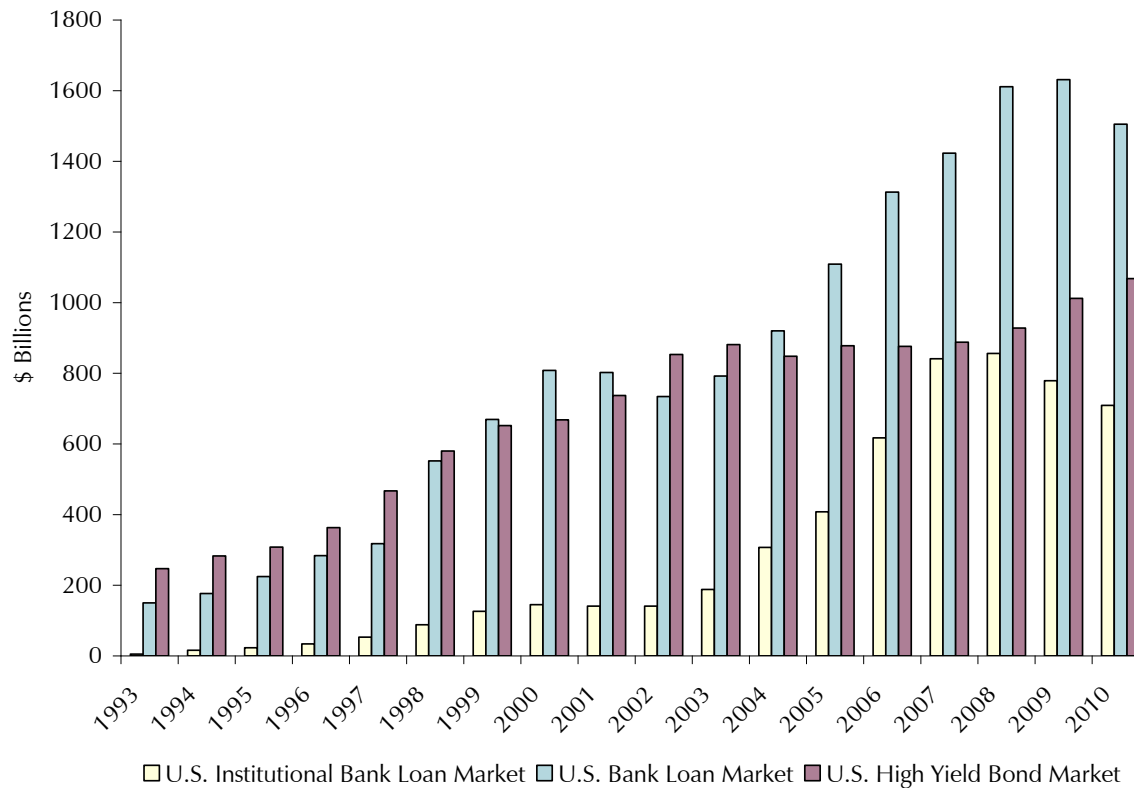
History of Bank Loans

- Bank loans emerged in the 1980s and were typically held by banks on their balance sheets and not traded.
- In 1995, the industry established a trade association, the Loan Syndications and Trading Association (LSTA), to develop and govern market standards.
- The LSTA helped create stability in the asset class, causing the secondary market to flourish.
- The par amount of issuance rose from \$200 billion in 1990 to over \$1 trillion in the mid-2000s.
- The bank loan buyer profile has changed dramatically. Originally, only banks purchased and held loans. Today, bank loan buyers include high yield managers, mutual funds, hedge funds, leveraged closed end funds (CLOs), and other institutional investors.

Bank Loan Terminology

- **Bank Loan** – Debt issued to corporations that has the first priority of the company's cash flows, before bonds and equity (stock). Bank loans are typically secured by collateral or specific company assets to ensure that lenders get some of their investment back if the company becomes insolvent.
- **Floating Rate** - Bank loan coupons “float” based on a predetermined short-term market interest rate, typically LIBOR.
- **LIBOR Floor** - A “floor” or lower limit on the floating rate. Bank Loans are issued with LIBOR floors when interest rates are low and investors demand a higher interest payment.
- **Spread** - With bank loans, the term “spread” refers to the interest payment in excess of the floating rate.
- **Collateralized Loan Obligation (“CLO”)** - A securitized investment vehicle that is a leveraged buyer of bank loans. CLOs were the dominant buyer of bank loans from 2004-2008, and contributed to the rapid growth of the bank loan asset class.
- **Covenants** - Provisions in the bank loan document that protect investors and give them the ability to renegotiate loan terms if the company is unable to pay interest or if the company's financial health meaningfully changes.
- **Discount Margin** - A commonly used yield measurement for bank loans that assumes the loan(s) is called at after a specified period of time. The discount margin is used instead of yield to maturity or yield to worst because bank loans do not have call protection.
- **Default** - Bank loans default if the company fails to make an interest or principal payment, or if covenants tied to financial health are breached.
- **Recovery** - The amount the investor recovers on their investment after a default.

Growth of the Bank Loan Market

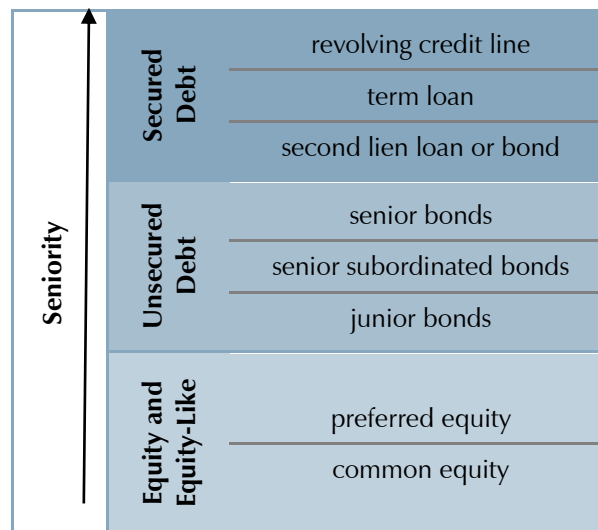


- As investors became more comfortable with bank loans, the secondary market flourished, and the par amount of issuance rose from \$200 billion in 1991 to over \$1.6 trillion today.
- The institutional bank loan market has grown substantially in the past 10 years. This subset of the bank loan market excludes all non-traded bank loans (held by banks) and revolvers. It shows the portion of the market that institutions commonly invest in.

What are Bank Loans?

- Bank loans are typically senior secured, floating-rate loans made to corporations with below investment grade ratings.
- The most common reason a company issues loans are to finance an acquisition or new corporate project, a leveraged buyout, or refinance existing bank loans.
- Similar to high yield bonds, investment banks underwrite and syndicate bank loans, working with investment managers on pricing and structure. Bank loans typically have three tranches: (1) revolver, (2) term loan-A, and (3) institutional tranches. Revolver and term loan-A tranches are both typically owned by banks. Institutional tranches are sold to institutional investors.
- Bank loan managers invest primarily in institutional bank loan tranches.

Typical Capital Structure of a Below Investment Grade Company



Bank Loans vs. High Yield Bonds

	Bank Loans	High Yield Bonds
Coupon	Floating Rate	Fixed Rate
Ranking	Senior	Senior Subordinated
Security ¹	Secured	Unsecured
Covenants	Maintenance and Incurrence	Incurrence
Callability ²	Callable	Not Callable
Average Spread ³	2.5%	5%

- Relative to high yield bonds, bank loans have a more senior position in the capital structure, are secured by company assets and cash flows, and have maintenance covenants. As a result, they are considered less risky than high yield bonds.
- Historically, the recovery rate for defaulted bank loans has averaged 66%, while the recovery rate for high yield bonds has averaged 41%.
- Most bank loans carry a floating interest rate based on LIBOR (London Interbank Offered Rate) plus a spread, where the spread is based on the risk of the loan.
- Spreads typically range from 1.5% to 3.0% over LIBOR.

¹ Occasionally companies will issue unsecured bank loans or secured high yield bonds.

² Typically bank loans are callable for the life of the loan. High yield bonds generally have a maturity of 8 to 10 years and are non-callable for the first 3 to 5 years.

³ Spread is relative to LIBOR for bank loans and a Treasury bond with a similar duration for high yield bonds.

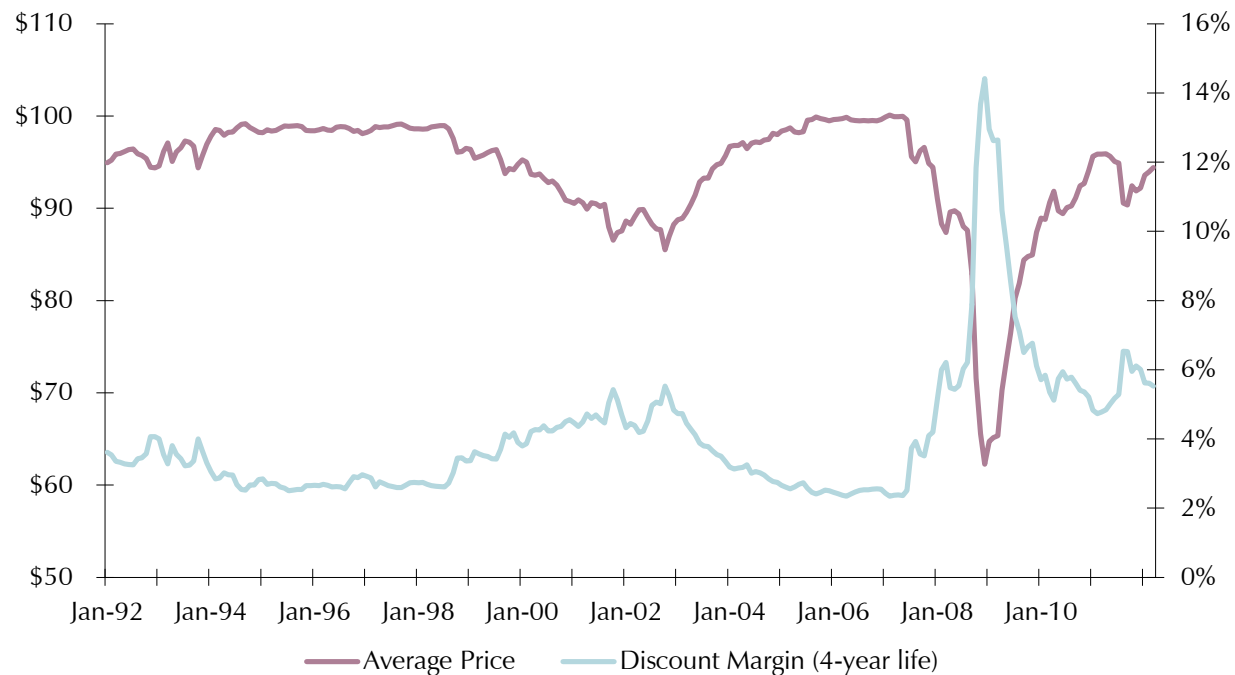
Potential Risks

- Company Specific Credit Risk
 - Risk that the borrower will not meet the terms of the loan due to insufficient cash flow or covenant violations.
- Industry Risk
 - A company's financial health is tied to the industry in which it operates, and highly leveraged companies are more vulnerable to negative industry trends.
- Capital Market Risk
 - Companies often pay the principal of maturing loans by issuing new loans. If the availability of credit in the markets is scarce, companies may find it difficult to refinance their debt.
- Liquidity Risk
 - Bank loans do not trade on an exchange, and tend to be less liquid than other forms of debt.

Examples of Companies that have utilized Bank Loans for financing

- Burger King
- Avis/Budget
- Dine Equity (Applebees/IHOP)
- Rite Aid

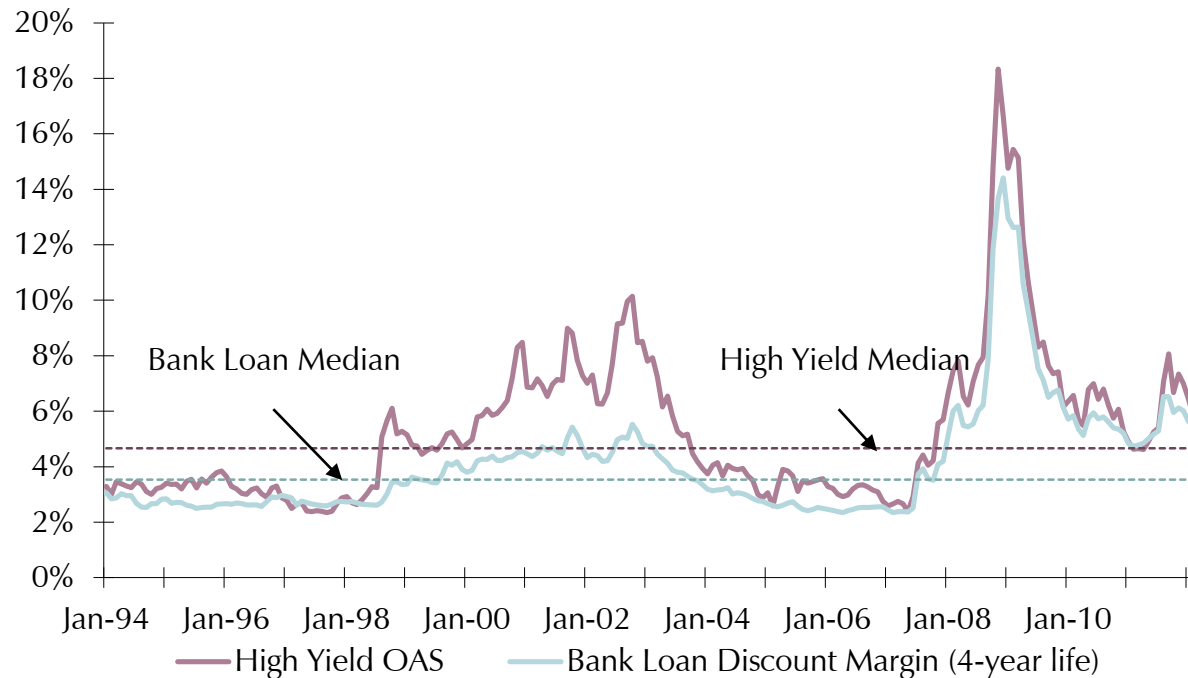
Historical Bank Loan Discount Margin and Average Price As of March 31, 2012



- Although yields have declined since 2009, bank loans continue to appear attractive, yielding approximately 5.4%¹.
- Since 1992, the historical average and median yield has been 4.1% and 3.5%, respectively.

¹ Yield measurement is the 4-year discount margin of the CSFB Leveraged Loan Index. The discount margin is a common yield measurement for loans.

Historical Bank Loan Discount Margin and High Yield Spreads As of March 31, 2012



- High yield bond spreads are 50 basis points above their historic average, while bank loan spreads are 130 basis points above their historic average.
- Bank loans appear attractive relative to high yield bonds.

Historical Bank Loan Returns

As of March 31, 2012

Trailing Period Returns

Common Period¹ Statistics (annualized)

Annualized Returns:	3 YR Return	5 YR Return	10 YR Return	Common Period Return	Standard Deviation	Semi Deviation	Sharpe Ratio	Correlation to Bank Loans
CS Lev. Loan	16.1	3.6	4.9	6.0	5.9	4.5	0.46	-
Barclays High Yield	23.9	8.1	9.2	8.4	9.7	7.0	0.53	0.74
Barclays Aggregate	6.8	6.3	5.8	6.4	3.9	2.7	0.81	-0.03

Recent Calendar Year Returns:	2011 (%)	2010 (%)	2009 (%)	2008 (%)	2007 (%)	2006 (%)	2005 (%)	2004 (%)	2003 (%)	2002 (%)	2001 (%)	2000 (%)
CS Lev. Loan	1.8	10.0	44.9	-28.8	1.9	7.2	5.7	5.6	11.0	1.1	2.6	4.9
Barclays High Yield	5.0	15.1	58.2	-26.2	1.9	11.8	2.7	11.1	29.0	-1.4	5.3	-5.9
Barclays Aggregate	7.8	6.5	5.9	5.2	7.0	4.3	2.4	4.3	4.1	10.3	8.4	11.6

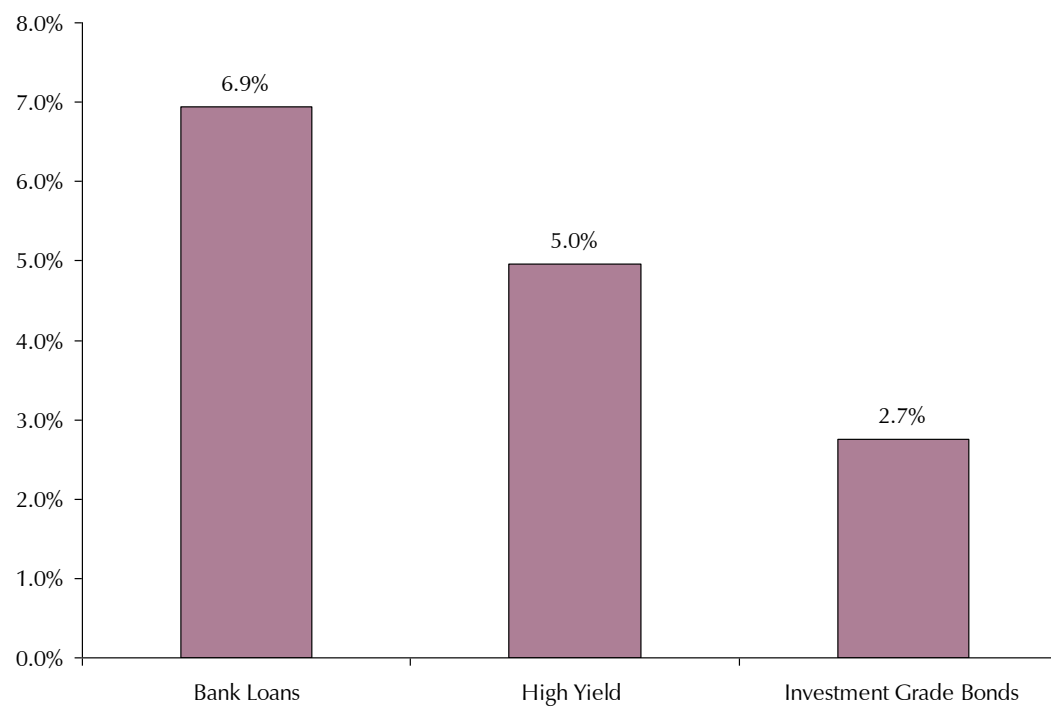
¹ Common period is from January 1992 to March 2012.

Historical Correlations

January 1992 – March 2012	Bank Loans	High Yield	Inv. Grade Bonds	Intermediate Treasuries	Stocks
Bank Loans	1.00				
High Yield	0.74	1.00			
Inv. Grade Bonds	-0.03	0.21	1.00		
Intermediate Treasuries	-0.35	-0.15	0.89	1.00	
Stocks	0.42	0.61	0.06	-0.16	1.00

Proxies used for Bank Loans, Inv. Grade Bonds, Intermediate Treasuries, High Yield, and Stocks are the CSFB Leveraged Loan index, Barclays Aggregate index, Barclays Intermediate Treasury index, Barclays High Yield index, and the S&P 500 index, respectively.

- Bank loans have historically offered a diversification benefit compared to other fixed income asset classes.

Average 1-Year Performance in Rising Rate Environments¹

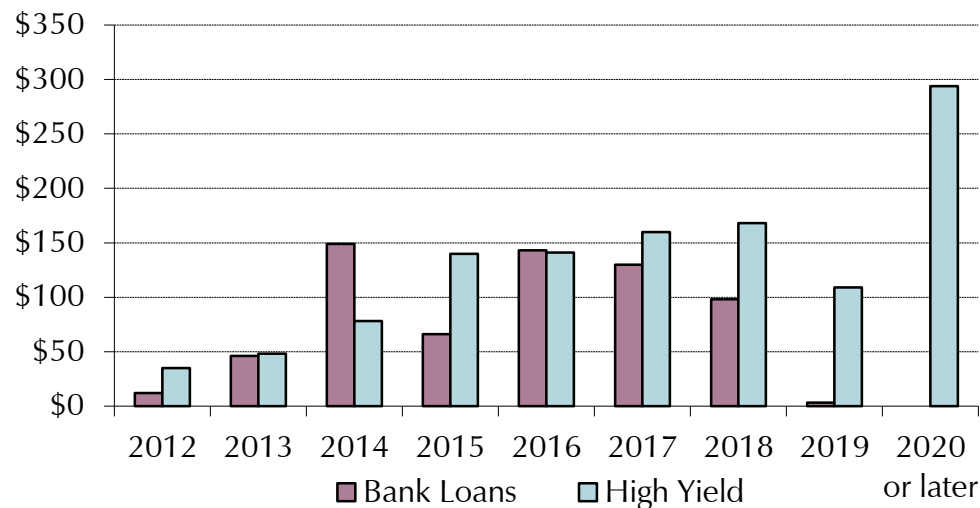
* Proxies for Bank Loans, High Yield, and Investment Grade Bonds are the CSFB Leveraged Loan index, Barclays High Yield index, and Barclays Aggregate index, respectively.

¹ January 1992 through March 2012. A rising rate environment was defined as a 12-month period in which the 3-month Treasury yield increased by one standard deviation more than average.

Technical Factors

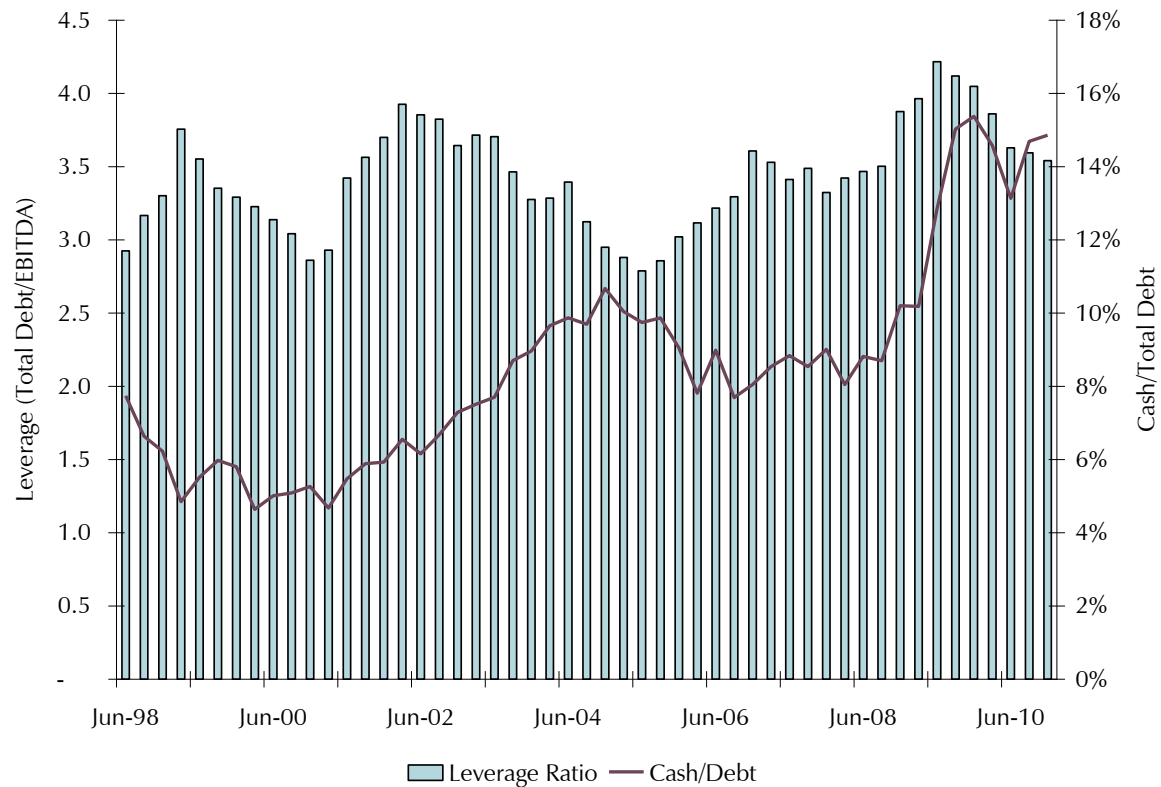
- The new issue loan market continues to thrive. Approximately \$54 billion of new bank loans were issued in the first quarter of 2012.
- The large “maturity wall” of debt has shrunk substantially in the past three years, but still provides an opportunity for investors in the bank loan asset class.

Debt Maturity Schedule¹ (\$ in billions)



¹ As of 12/31/2011 Source: JP Morgan.

Leveraged Issuer Financial Characteristics



- For speculative grade (high yield and bank loan) issuers, balance sheet leverage has decreased and cash has meaningfully increased since the financial crisis.

Over the past few years, more bank loan investors have required “floors” on the base rate that is used to determine loan interest coupons.

Loan Issue Year	% of issues with LIBOR floor	# of issues with LIBOR floors	# of total new issues
2011	76	423	558
2010	72	354	493
2009	54	85	157
2008	27	33	122
2007	3	23	669
2006	3	10	329

- Today, 51% of the entire loan index has LIBOR floors.
- The average coupon (issue spread plus LIBOR floor) of 2011 vintage bank loans was 5.8%.

Bank loan coupons have been increasing despite their base rate (LIBOR) staying fairly stable; this is due to higher lending standards set by bank loan investors.

Average Coupons ¹	3/31/2012	12/31/2011	12/31/2010	6/30/2010
High Yield	8.17%	8.27%	8.37%	8.41%
Bank Loans	4.84%	4.65%	4.30%	4.01%

¹ Coupon measurements are the average coupon for the Barclays High Yield and CSFB Leverage Loan indices.

The Case for Bank Loans as an Investment

Structure

- Unlike bonds that typically have fixed coupons, bank loan coupons float, and are tied to short-term interest rates.
- In the corporate capital structure, bank loans are senior and secured. Relative to bonds and equity, they have more protective covenants and a higher claim on company assets and cash flows in the event of default.

Diversified source of return

- Bank loans have exhibited lower correlations to other traditional asset classes and should lower total Fund standard deviation, increasing risk-adjusted returns.
- Bank loans have historically experienced less volatility than high yield bonds.

Current Opportunity

- The bank loan market has grown rapidly in the last decade. The market has become more investable by institutional investors due primarily to the establishment of governance standards and the popularity of bank loans as a source for financing mergers and acquisitions.
- CLOs, formerly the primary buyer of bank loans, are winding down and creating an opportunity for other investors in the asset class.
- Over the next five years, more than \$500 billion of bank loans need to be refinanced.

The Case for Bank Loans as a Component of the Retirement System

- Bank loans represent an alternative or complement to high yield bonds, both from an investor's and an issuer's standpoint.
- Although the performance history of the bank loan market is less robust than high yield bonds, bank loans represent an attractive way to diversify a portfolio and to attain a reasonable risk-adjusted return.
- There is no investable bank loan broad market index. An institutional investor must hire an active manager in order to gain exposure to the asset class.

APPENDIX J

MEKETA INVESTMENT GROUP SAMPLE MARKETING BROCHURE

M MEKETA INVESTMENT GROUP

INVESTMENT CONSULTING AND ADVISORY SERVICES

About Us

Since 1978, Meketa Investment Group has served our clients as independent investment fiduciaries. Today, we are a full service investment consulting and advisory firm, providing creative investment solutions custom tailored to fit the unique circumstances of our clients. We work with clients on both a full retainer and project basis, and all of our services are available on a discretionary or non-discretionary basis.

Our Services

Our consulting and advisory services fall into two primary categories:

General Consulting Services

- Initial Fund Review
- Investment Policy Design
- Asset Allocation
- Liability & Liquidity Studies
- Manager Evaluation & Selection
- Fund Coordination
- Fund Reporting & Review

Private Markets Services

- Strategic Planning
- Investment Policy Design
- Pacing Analysis
- Partnership Analysis
- Legal Review
- Cash Flow Coordination
- Program Monitoring & Review

Research Coverage

Our research provides clients with expertise across all major asset classes:

- Global Equities
- Fixed Income
- Hedge Funds
- Commodities
- Private Equity/Debt
- Real Estate
- Infrastructure
- Natural Resources

Who We Serve

Plan Sponsors

- Taft-Hartley
- Public
- Corporate & Non-Profit
- High Net Worth/Family Offices

Plan Types

- Defined Benefit Plans
- Defined Contribution Plans
- Endowments & Foundations
- Health Plans, OPEBs & VEBAs

Why Meketa Investment Group?

Experienced Organization

Our firm has been in business for 34 years. The Managing Principals average 19 years at the firm and 22 years in the industry. We currently work with 78 clients, who oversee over 150 funds, representing over \$470 billion in aggregate assets.

Fiduciary Role & Complete Independence

We have served as independent fiduciaries to institutional plan sponsors since the firm's inception. We are 100% employee-owned and we derive no revenue from investment managers, commissions, or vendors.

Deep Team

We have a staff of over 100, including 60 investment professionals, of which 18 are CFA Charterholders and 13 are CAIA Charterholders. Each of our clients is supported by a dedicated team of professionals.

Research Focused

We strive to be thought leaders in our research, and we seek to provide clients with creative investment solutions. Additionally, our public and private markets investment committees lead our due diligence efforts and draw on the expertise of the firm's senior professionals.

Intensive Level of Client Service

Our primary goal is to serve our clients, recognizing each client has unique needs and circumstances. As a result, we look to be flexible in the services we provide, and we are staffed to provide clients with custom advice and client service.

As of September 1, 2012.

BOSTON OFFICE

100 Lowder Brook Drive • Suite 1100
Westwood MA 02090
781 471 3500 • Fax 781 471 3411

MIAMI OFFICE

1001 Brickell Bay Drive • Suite 2000
Miami FL 33131
305 341 2900 • Fax 305 341 2142

SAN DIEGO OFFICE

5796 Armada Drive • Suite 110
Carlsbad CA 92008
760 795 3450 • Fax 760 795 3445

www.meketagroup.com

MEKETA INVESTMENT GROUP

PRIVATE MARKETS SERVICES

About Us

Since 1978, Meketa Investment Group has served our clients as independent investment fiduciaries. Today, we are a full service investment consulting and advisory firm, providing creative investment solutions custom tailored to fit the unique circumstances of our clients. We work with clients on both a full retainer and project basis, and our Private Markets Services are available on a non-discretionary or discretionary basis.

Private Markets Services

We provide all of the necessary components for clients to successfully implement custom private markets programs, including:

Program Design

- Private Markets Education
- Strategic Planning
- Pacing Analysis
- Partnership Analysis
- Legal Review
- Negotiating Terms/Fees

Program Implementation

- Cash Flow Coordination
- Program Monitoring & Review
- Annual GP Meeting Attendance
- Partnership Amendments
- Advisory Board Representation
- Client Reporting

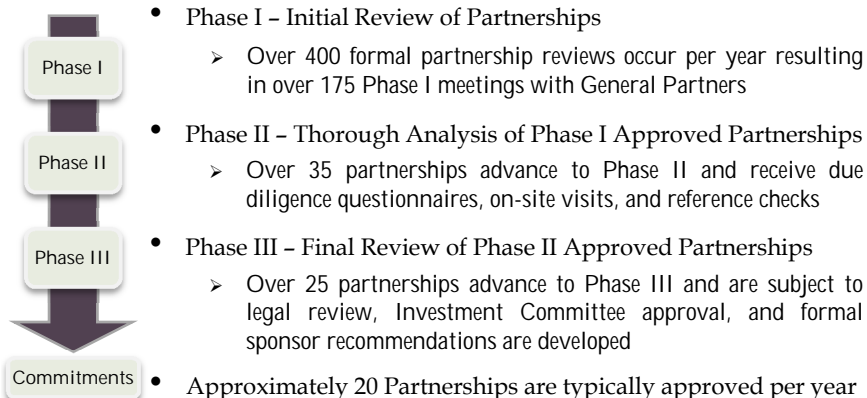
Private Markets Research

Our research provides clients with expertise across the following private markets asset classes:

- Private Equity
- Private/Opportunistic Debt
- Infrastructure
- Real Estate
- Natural Resources

Due Diligence Process

Our three-stage due diligence process is conducted by our Private Markets teams.



Why Meketa Investment Group?

Experienced Organization

Meketa Investment Group has been investing in Private Markets for over a decade. We currently oversee \$19 billion in commitments to private markets for over 50 clients.

Fiduciary Role & Complete Independence

We are able to act as a Qualified Professional Asset Manager (QPAM) and an ERISA Fiduciary. We are 100% employee-owned and we derive no revenue from investment managers, commissions, or vendors.

Deep Private Markets Team

We have a staff of 61 investment professionals, of which 17 are CFA Charterholders and 13 are CAIA Charterholders. We have 24 professionals dedicated to private markets.

Research Focused

Our Private Markets research teams lead the firm's due diligence efforts. We typically review over 400 Private Markets opportunities per year. Prior to client commitments, each team must present candidates to the firm's Private Markets Investment Committee (PMIC) which is comprised of the firm's six most senior professionals. The PMIC must vote unanimously to approve all investments.

Strong Performance & Competitive Fees

We have delivered strong investment performance for our clients. We have outpaced both public and private market indices. Our custom programs are less costly than investing through a fund-of-funds, resulting in significant savings for our clients.

BOSTON OFFICE

100 Lowder Brook Drive • Suite 1100
Westwood MA 02090
781 471 3500 • Fax 781 471 3411

MIAMI OFFICE

1001 Brickell Bay Drive • Suite 2000
Miami FL 33131
305 341 2900 • Fax 305 341 2142

SAN DIEGO OFFICE

5796 Armada Drive • Suite 110
Carlsbad CA 92008
760 795 3450 • Fax 760 795 3445

www.meketagroup.com

MEKETA INVESTMENT GROUP

FEES

SECTION IV: FEES

The proposed fees shall be guaranteed for the duration of the contract which shall be a period of five (5) years from the effective date of the Contract. The services listed in Section I under "Nature and Scope of Services" should form the basis for the proposed fees. The method of payment will be set forth in the Contract. Once the consultant is selected, the fee may be negotiated further depending on the variance from other proposals received. In no case will the negotiated fee be higher than the fee contained in this proposal.

Please use the following template as a guide in presenting your fee proposal:

A. All-Inclusive Flat Fee:

Year	Fees
Year 1	\$310,000
Year 2	310,000
Year 3	310,000
Year 4	325,000
Year 5	345,000
Total Fees (Years 1-5)	\$1,600,000

B. Additional Fees or Costs:

Please provide a fee quote for any services or expenses, including any additional fees associated with alternative asset classes, that would not be covered in the fees proposed in part A above. Please list fees as flat fees or hourly rates per consultant, as appropriate.

Type of Service	Fees

* The above proposed fee includes expenses such as reasonable travel, lodging and meals.

** For projects that fall outside of our standard scope of services, Meketa Investment Group provides project-consulting to our clients as requested. Due to the unique nature of each individual project or alternative asset class, Meketa Investment Group would work with the Boards to determine a fee that would be mutually agreeable with both parties.

C. Additional Information:

Please also provide any other information that may assist us in more clearly understanding your fee proposal:

Meketa Investment Group has been providing investment consulting advice for thirty-four years. We routinely provide our clients with valuable services that other consultants do not offer. Our work has helped clients control costs, reduce risks, and achieve outstanding investment results. Meketa Investment Group would welcome the opportunity to provide the same service to the City of Fresno Retirement Systems.

We are pleased to offer the following consulting services:

General and Public Markets Consulting Services

Strategic Investment Advice	Fund Coordination
<ul style="list-style-type: none">• Initial Fund Review• Investment Policy Design• Asset Allocation• Liability & Liquidity Studies• Manager Evaluation & Selection• Fund Reporting & Analysis• Board Education	<ul style="list-style-type: none">• Managing Cash Flows• Negotiating Fees• Supervising Transitions• Crisis Response Plan• Risk Control• Board Protection• Retirement System/Staff Meetings

Meketa Investment Group, Inc.

September 7, 2012

Name of Firm

Date



Managing Principal / Consultant

Signature

Title