## Active Management of

#### The Government Pension Fund Global Yngve Slyngstad CEO, NBIM

*Ministry of Finance Seminar Oslo, 20 January 2010* 

#### The Government Pension Fund Global

## **Government Pension Fund Global**



Sources: Ministry of Finance and Norges Bank

### Equity Ownership in Percent of Markets



#### **Relative Return - Fund**



#### **Relative Return - Equities**



#### Relative Return – Fixed Income



## NBIM's Five Tasks

- 1. Transition of new assets into the global capital markets
- 2. Cost efficient market exposure
- 3. Create excess return relative to the benchmark through active management
- 4. Safeguard long-term financial interests through active ownership
- 5. Advise the Board and Ministry of Finance on strategic issues



## NBIM's Letter on Active Management to The Ministry of Finance



## The Questions Asked

- Are Markets Efficient?
- Why Active Management?
- Which Type of Active Management?

#### Are Financial Markets Efficient?

Chapter 1.1 – 1.2

### Are Financial Markets Efficient?

- Academic literature has become more nuanced
  - Constraints on financing, risk capacity
  - Investor segmentation
  - Changing and time-varying risk factors

## **Degree of Efficiency Varies**

- Between markets
- Over time
  - Market stress and financing constraints
- As pricing may not be uniform globally or by instruments
  - Investor and market segmentation
- Over investment horizon



Theory suggest it is possible to create value through active decisions

#### Are Financial Markets Efficient?

Even dual stock exchange listing may incur price differentials



#### **External Management**



#### Empirical Evidence on Manager Performance

#### Empirical research has limitations

- Limited research on other asset classes than listed equities
- Research focused on developed markets, mostly US
- Data on mutual funds, hedge funds, and private investors very limited on large institutions
- Empirical evidence shows some fund managers add value
  - The level of fees and costs is critical
    - Security selection better than total return
    - Cash, fees and transactions cost detracts from performance

## Fees and Transaction Costs Critical

 NBIM fees and transaction cost are unusually low



Source: CEM Benchmarking Inc.

#### Are Financial Markets Efficient?

- A good starting point as a hypothesis
  - For the investment strategy discussion
  - For building an investment organisation
- Academic literature has become more nuanced
  - Constraints on financing, risk capacity
  - Investor segmentation
  - Changing and time varying risk factors
- Empirical evidence show some managers add value
  - Most research on mutual funds and developed markets
  - Fees and transactions costs critical

## Why Active Management?

#### Chapter 1.3

## The Bigger Picture

- The benchmark portfolio is not a neutral starting point
- Active management may improve the trade-off between risk and return
- A long-term investor with high risk capacity should exploit time-varying and systematic risk factors
- Strategy must be well communicated, understood and anchored in the control structure

## The Three Most Important Active Decisions

- 1. The timing of benchmark changes
- 2. Inflows and timing of moving from cash to financial assets
- 3. Rebalancing decision when moving back to strategic assets weights

#### **Twelve Years of Return History**

# Annualised Excess Return for the Government Pension Fund Global



#### Accumulated Excess Return for the Government Pension Fund Global





Active equity management started in 1999

# Accumulated Excess Return for the Fixed Income Asset Class



Active fixed income management started in 2000

#### Has GPFG Been Harvesting Risk Premia?



## The Risk of Active Management

#### **Expected Relative Volatility**



Active management to date has only used 20% of risk limit.

#### How Actively Is the Fund Managed?



#### Did Active Management Increase Risk?



## Active Management May Reduce Risk

- Active management regularly reduce investment risk
  - Better grasp on systematic risk
  - Continuous evaluation of the risk-return trade-off
  - Exclusions of segments of benchmark that has unwanted risk
  - Adding financial instruments for risk management
- Active management is risk control
  - Strengthens risk management capabilities
  - Reduces operational risk
  - Improves strategic advice insights
  - Protects our shareholder rights

## Why Active Management?

- We believe we can create higher return
  - Founded on academic research
  - Based on competitive advantage
  - Supported by 12 years' return history
- Without increasing the risk of the fund
  - Benchmark choice accounts for 99.7% of risk
  - The benchmark is not risk neutral or optimal at any time
- Through building financial competence
  - Insight in the investment is the best risk management
  - Active management also reduces operational risk

#### Which Type of Active Management?

#### Chapter 2

## Academic Research on Successful Managers

- Governance structure
  - Alignment of interest
- Organisation
  - Scale
  - Delegation
  - Human capital
- Management structure
  - Specialisation
  - Analytical capacity
  - Independent ideas
  - Concentrated portfolios
- Incentive structure
  - Alignment of risk

#### Features of Successful Active Management

#### Organisation

- Delegation of decision making authority
- High quality human capital and financial competence
- Appropriate incentive structure
- Approach to asset management
  - Specialisation and diversified mandate structure
  - Emphasis on internal analytical capacity
  - Focus on investment idea generation
  - Concentrated investment positions in numerous mandates

#### The Active Management Strategy

#### Chapter 2.1

#### Defining Characteristics of the Fund





#### **NBIM's Characteristics**

- Long term
  - Time to return realisation
  - Stressed markets
  - Risk-return trade-off
- Size
  - Economies of scale
  - Targeted strategies
  - Terms and customisation
- Organisation
  - Specialisation
  - Delegation
  - Diversification
  - Concentration

#### Active Management in NBIM

- A large, long-term investor
  - Holding and taking positions through turbulent markets
  - Emphasis on high conviction investment positions
  - Economies of scale in information gathering and analysis
  - Targeted and customised strategies in defined universe
- Management Structure
  - Focus on internally driven, bottom-up research
  - Delegated portfolio structure with clear mandates
  - Independent research and expert knowledge in narrow segments
  - Investing through concentrated portfolios

#### **Three Main Active Strategies**

Chapter 2.2 – 2.4

#### Three Main Strategies for Active Management

#### Ensure efficient market exposure

#### Create value through fundamental analysis

Management of systematic risk

## **Alternative Return Sources**

- Relative value strategies
- Fundamental strategies
- Factor-based positions
- Tactical allocation

#### From NBIM's Annual report 2003:

Management strategy	Relative value	Fundamental strategies	Factor-based strategies	Tactical allocation
Analytical ability	+++	++	+	+
Number of independent positions	++	+++	-	-
Implementation costs	+	++	+	+++
Experience	+++	++		-
Expenses	High	High	Moderate	Low
Expected information ratio	High	High	Moderate	Low

#### The Question Asked by AGS

Are we missing out on clear investment opportunities?



#### **Return Series of Different Strategies**



#### The Owners' Return Preferences A Key Question

## Which Type of Active Management?

- We are basing our strategies on being a large, long-term investor
- We are continuing our long-term investment philosophy based on:
  - Specialisation
  - Delegation
  - Diversification
- With three pillars of active management
  - Efficient market exposure
  - Fundamental research
  - Systematic risk management

## Managing Systematic Risk

#### A Comment

#### Systematic Risk Factors

- An increasing number of anomalies identified
- Varies over time and between markets
- New anomalies likely to emerge
- Our understanding of financial markets change rapidly

## Systematic Risk Exposures in GPFG

	Equity p	ortfolio	o Fixed income portfolio	
	Coefficient	T-value <sup>1)</sup>	Coefficient	T-value <sup>1)</sup>
Alpha	0.0288	1.45	-0.0081	-0.44
МКТ	0.0152	2.61	-0.0015	-0.04
VAL	-0.0373	-4.14		
SML	0.0367	3.93		
UMD	0.0067	2.02		
EMG	0.0073	1.03		
CR1			0.0588	2.80
CR2			-0.0025	-0.10
CR3			0.0003	0.11
ILL	0.0659	0.73	0.3997	4.82
CRY	-0.0032	-0.42	0.0150	1.66
VOL	0.0056	1.10	0.0173	2.19
Adj R <sup>2</sup>	42.0%		62.2%	

Estimation results. February 1998 to October 2009

1) Based on heteroskedasticity-consistent standard errors.

## Measuring Factor Exposure

Estimatio	on results. Feb 1	998 - May	2007		Estimatio	on results. Febru	ary 1998 -	October 200	9
	Equity portfolio		Fixed income			Equity portfolio		Fixed income	
	Coefficient	T-value <sup>1)</sup>	Coefficient	T-value <sup>1)</sup>		Coefficient	T-value <sup>1)</sup>	Coefficient	T-value <sup>1)</sup>
Alpha	0.0336	1.64	0.0233	4.54	Alpha	0.0288	1.45	-0.0081	-0.44
MKT	0.0114	1.70	-0.0068	-1.09	MKT	0.0152	2.61	-0.0015	-0.04
VAL	-0.0346	-3.45			VAL	-0.0373	-4.14		
SML	0.0428	4.07			SML	0.0367	3.93		
UMD	0.0077	2.39			UMD	0.0067	2.02		
EMG	0.0051	0.81			EMG	0.0073	1.03		
CR1			0.0090	0.77	CR1			0.0588	2.80
CR2			-0.0067	-1.33	CR2			-0.0025	-0.10
CR3			0.0001	0.16	CR3			0.0003	0.11
ILL	-0.2237	-2.56	-0.0144	-0.71	ILL	0.0659	0.73	0.3997	4.82
CRY	-0.0103	-1.29	0.0009	0.29	CRY	-0.0032	-0.42	0.015	1.66
VOL	0.0133	1.43	0.0004	0.10	VOL	0.0056	1.10	0.0173	2.19
Adj R <sup>2</sup>	45.60 %		2.10 %		Adj R <sup>2</sup>	42.00 %		62.20 %	

1) Based on heteroskedasticity-consistent standard errors. 1) Based on heteroskedasticity-consistent standard errors

#### Systematic Risk – Not a One Way Bet



## Systematic Risk – Not Stable Over Time



### Conclusion

#### The Questions Asked

- Are Markets Efficient?
- Why Active Management?
- Which Type of Active Management?

#### The First Question Asked

Are Markets Efficient (or Just Hard to Beat)?

- A good starting point
- Academic literature is today more nuanced
- Empirical evidence shows some managers outperform

An explicit goal of achieving the highest possible return is necessary to ensure the best possible quality in all aspects of the management task.

#### The Second Question Asked

#### Why Active Management?

- We believe we can create higher return
- and improve the risk-return of the fund
- by building competence and exploiting the fund characteristics

An organisation that aims to be average will achieve mediocrity.

### The Third Question Asked

- Which Type of Active Management?
  - We are basing our strategies on being a large, long-term investor
  - Ensuring an efficient market exposure, complemented by fundamental research, and systematic risk management
  - All strategies are founded on our financial market insights

NBIM's mission is to safeguard and build financial wealth for future generations.

#### **Overall Summary**

- Twelve years experience of managing the fund suggests that active management could make an important contribution to the return of the fund in the long term.
- We believe we can improve the risk-return characteristics of the fund through active management.
- Norges Bank can not recommend a passive investment strategy which does not seek to achieve cost-efficient market exposure, insight in the underlying assets in which we are invested, or an understanding of the overall risk of our investments.

