

UWO Endowment

Evaluating Fund Managers: Part Art / Part Science

Bruce B. Curwood, MBA, CFA, CIMA, AccDir.

Russell Investments Canada Limited

2013

Important information and disclosures

- Nothing contained in this material is intended to constitute legal, tax, securities, or investment advice, nor an opinion regarding the appropriateness of any investment, nor a solicitation of any type. The general information contain in this publication should not be acted upon without obtaining specific legal, tax, and investment advice from a licensed professional.
- Please remember that all investments carry some level of risk, including the potential loss of principal invested. They do not typically grow at an even rate of return and may experience negative growth. As with any type of portfolio structuring, attempting to reduce risk and increase return could, at certain times, unintentionally reduce returns.
- Diversification and strategic asset allocation do not assure profit or protect against loss in declining markets.
- These views are subject to change at any time based upon market or other conditions and are current as of the date of first use. The opinions expressed in this material are not necessarily those held by Russell Investments, its affiliates or subsidiaries. While all material is deemed to be reliable, accuracy and completeness cannot be guaranteed. The information, ansiss, and opinions expressed herein are for general information only and are not intended to provide specific advice or recommendations for any individual or entity.
- Forecasting represents predictions of market prices and/or volume patterns utilizing varying analytical data. It is not representative of a projection of the stock market, or of any specific investment.
- Unless otherwise noted, source for the data in this presentation is Russell Investments
- Copyright© Russell Investments 2010. All rights reserved. This material is proprietary and may not be reproduced, transferred, or
 distributed in any form without prior written permission from Russell Investments. It is delivered on an "as is" basis without warranty.
- Russell Investment Group is a Washington, USA corporation, which operates through subsidiaries worldwide, including Russell Investments, and is a subsidiary of The Northwestern Mutual Life Insurance Company.
- The Russell logo is a trademark and service mark of Russell Investments.
- Date of first use: 2012
-) USI-6531-04-11

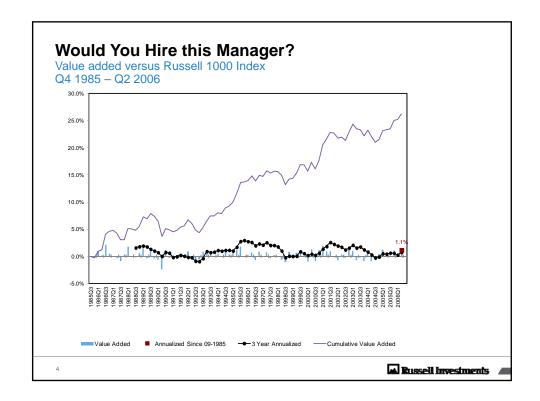
THIS MATERIAL WAS CREATED BY RUSSELL AS AN EDUCATIONAL TOOL, AND NOT INTENDED FOR FURTHER DISTRIBUTION

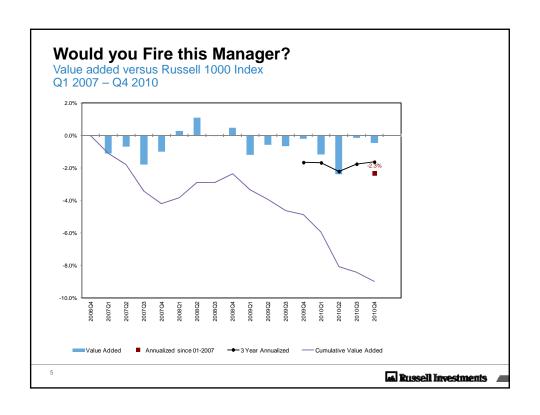
FINANCIAL PROFESSIONAL USE ONLY

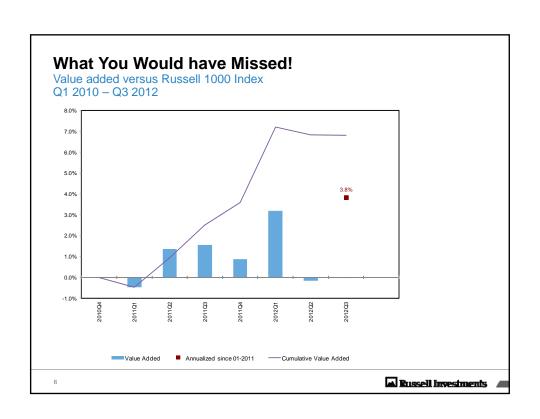
The Investment Decision Hierarchy & Importance

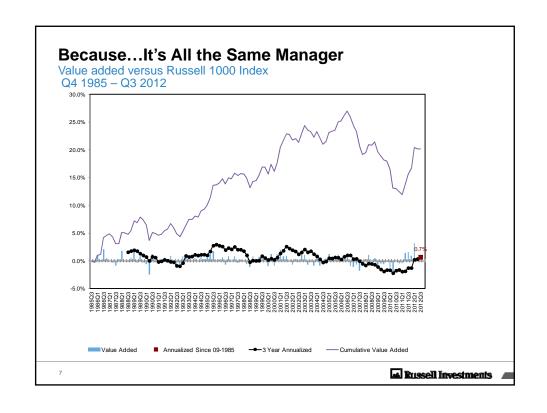
- Governance/ risk management/ objective setting (effects 100% of the fund)
- Asset Allocation
-) (the 90% solution)
- Asset Class Structures (varies by asset size & risk usually below 50% of total diversified fund)
- 4. Manager search (varies by active / passive component)
- 5. Individual manager products (depends on # of managers but usually less than 10% of total fund)

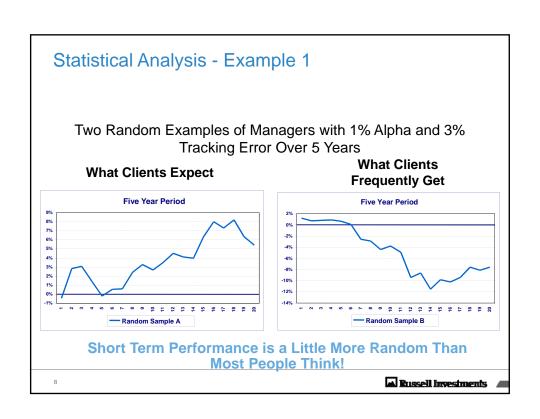
3

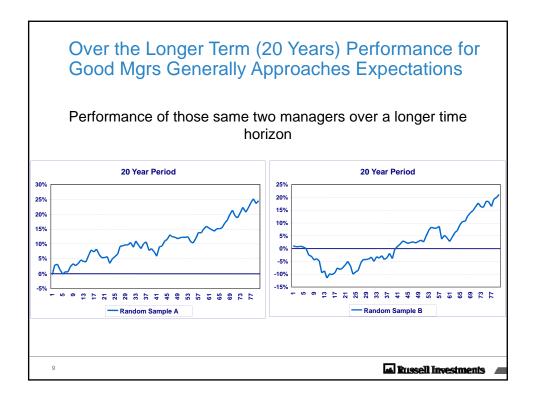












Statistical Analysis - Example 2

How long will it take statistically to discern if a manager can add value through skill?

	Realistic Value Added Objective	Target Value Added Midpoints	Minimum Time
Canadian Fixed Income	25 - 50 bps	38 bps	16 years
Canadian Equity	100 - 150 bps	125 bps	17 years
U.S. Equity	50 - 100 bps	75 bps	157 years
International Equity	150 - 200 bps	175 bps	68 years

Conclusion:

Statistically, the performance numbers are unreliable in the normal investment committee evaluation period, which is generally less than 5 years.

10

Statistical Analysis - Example 3

Probability of a Skilled Manager (1% Alpha) Underperforming?

		•		
	2%	4%	8%	
1 Year	31%	41%	47%	
5 Years	14%	30%	43%	
10 Years	6%	23%	40%	

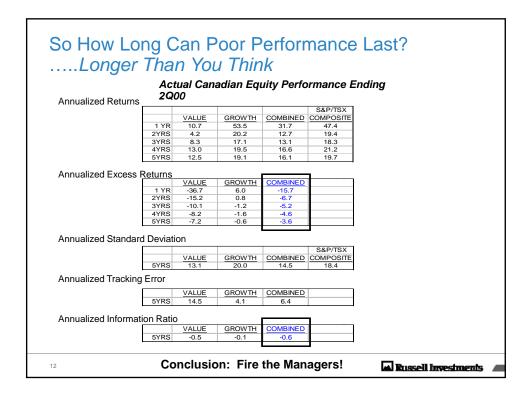
Source: Zurich Scudder Research

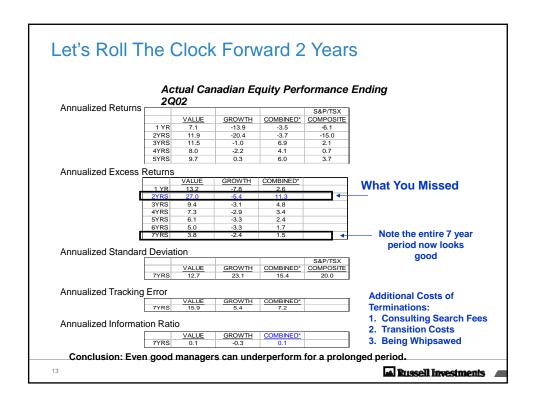
Tracking Error

Conclusion:

Good asset class strategies (with lower tracking error) have a higher probability of success in normal evaluation time periods!

11





Cambridge Associates Studies 1999 & 2004

Background

-NorthRoad Capital Mgmt documented Cambridge Associates universe data in an article "Broken Arrow"

Methodology

- -Cambridge Investment Associates Inc manager database
- -They studied 10 year asset manager results for 47 managers in the first quartile as of 12/31/1999
- -The study was repeated in 2004, with similar results

Results

- -45 of 47 1st quartile managers spent at least one 3 year period underperforming more than $\frac{1}{2}$ of its peers;
- -2/3's endured at least one 3 year period in the bottom quartile;
- -40% underperformed 90% of their competitors for three years;
- -"An investor looking to identify a manager who can outperform over the next 10 years, may well find success among those who are not broken but merely out of favor; those with proven, talented decision-makers, a strong and consistent process and the discipline to maintain a clear and consistent philosophy, even when it is out of favor."

Rogers Casey 2010 Performance Persistence Study

Background

-Rogers Casey regularly analyses the performance of traditional active managers

Methodology

- -Their Equest database of 2841 US equity managers and 1376 international managers and 1370 fixed income managers were used as of 12/31/2010
- -They further narrowed the universe to managers with 10 years of data and separate accounts
- -They analyzed the number of active managers who were 1st or 4th quartile performers from the previous 5 years (2001-2006) versus 1st or 4th quartile performers over the most recent 5 years (2006-2010)

Results

-Rogers Casey believes "selecting asset managers based on past performance, especially within the equity space, will lead to disappointing results for our clients. We recommend that investors adopt a forward-looking approach when selecting active managers."

15

Russell Investments

Towers Watson 2012 "Firing an Investment Manager"

Responses to Several Questions

-AlternativChronicle article documenting TowersWatson responses

Q1 –Is firing for underperformance a good idea?

-"Yes...if it occurs after a key portfolio manager has left or research reveals portfolio turnover has risen dramatically without a valid reason. Otherwise the performance might be just normal market gyration or the manager's particular investment style. In such cases it is prudent to just wait and see. A key question worth asking is whether the manager's investment results are consistent with their investment process and skill? If yes, then again it's premature to terminate."

Q4 -Are political factors a good reason to fire a manager?

-"Being a great client is just as important as hiring great investment managers for long term success. But patience is a rare commodity for plan sponsors who are in deficit and forced to react."

16

2012 "The Likelihood of ST Underperformance"

Background

-An unpublished quantitative study of actual institutional manager performance

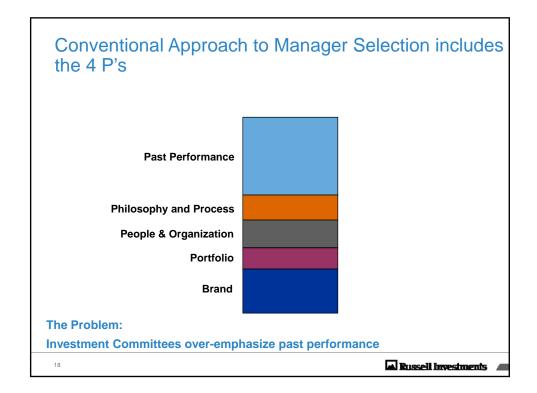
Methodology (extensive)

- -Analyzing outperforming large cap US core equity funds, net of fees, in the eVestment Alliance database from March 1970 to December 2008
- -Reviewed shorter period underperformance for 525 successful products

Results

- -"For funds with 20 years of outperformance, no fund (0%) outperformed in all shorter time periods of under 5 years therein;
- -Not until 7 year sub-period outperformance are their results in funds that outperformed over the 20 year long term and the shorter term sub-periods and only 12.2% result in funds outperforming in both periods;
- -The likelihood of experiencing at least one 10 year sub-period of underperformance, during a 20 year period of outperformance, is surprisingly high at 75%;
- -These results suggest that the risk to plan sponsors is quite high, if they take action based on short term underperformance, when other evidence suggests no change in the portfolio manager's capability."

17

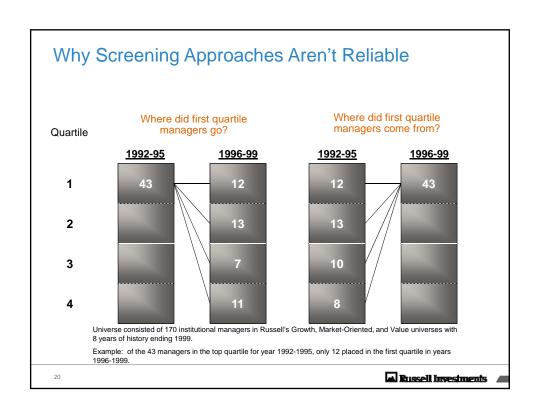


What's Wrong with Conventional Models?

- > Past performance has limited predictive value
- > Significant "buy high, sell low" risk
- > Unaware of manager conditions while record was built
- > Evaluations may be biased and lack objectivity



19



An Update on a Similar Persistence Study by S&P Dow Jones Indices 2012

Background

-The Persistance Scorecard, released twice per year, tracks the persistency of top performers over consecutive yearly periods

Methodology

- -The clean, mutual fund universe used is composed of actively managed, domestic US equity managers, with no survivorship bias
- -The tracking report shows the percentage of top performing funds over subsequent, non overlapping, 3 and 5 year periods

Results

- -Of the 399 top performing funds in 2007, only 24.1% remain in the top quartile over the 5 year subsequent period ending 2012. Random expectations would expect 25%. -Very few funds manage to consistently stay at the top.
- -While top quartile repeat rates have been at or below the level one expects based on chance, there is consistency in death rates of bottom quartile funds. Across all market capitalization categories and all periods studied, 4th quartile funds had a much higher rate of being merged and liquidated.

21

Russell Investments

Skill In Investment Management

If you can't use rate of return numbers because of the the long timeframe required what should you focus on?

Reasonable risk for the asset class group of managers versus the benchmark

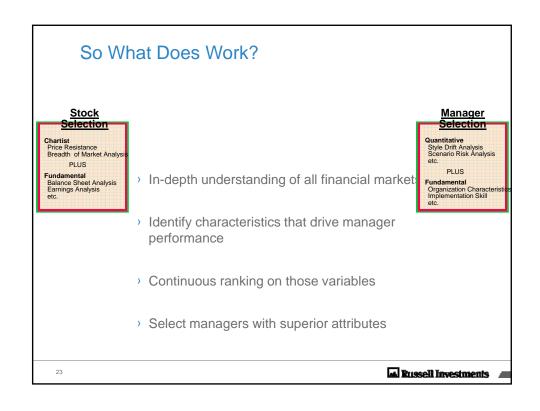
Consistency

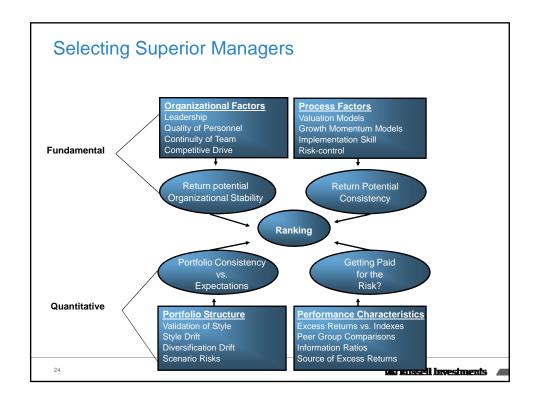
Excellent Research

A good sound process

Skill in Investment Management

22





Russell manager research beliefs

Successful investment processes have

- √ Talented & motivated people
- ✓ Clear philosophy
- √ Consistent investment approach
- ✓ Ability to implement decisions efficiently
- ✓ Organizational continuity

Key: Investment managers need to have a competitive advantage

✓ Unique investment insight or process

Can quantitative tools alone assess these qualities?

✓ The Answer: No

25

Russell Investments

Skill For Each Manager

- □ An investment philosophy that is logical, intuitive, and revolves around exploiting market inefficiencies that should persist.
- ☐ An effective process that best allows a manager's information advantage to positively impact the portfolio.
- ☐ The manager's holdings are reasonably consistent with their style (portfolio characteristics, countries, sectors, style, capitalization, etc.) and process (buy/sell discipline and rationale);
- Organizational Stability: there are / will be no adverse changes to the people or decision-making process or the firm (takeovers);
- □ Always seeking to refine and improve the process and research;
- □ Highly motivated investment staff who have objectivity, humility and the desire to *win*.

26

Additional Factors that Seem to Help

- Size of assets under management (less is better)
- •Skin in the game (interests are aligned)
- •Smaller portfolio team with fewer products (focused)
- •Young hungry firms, with experience (motivated)
- •Excellent internal research (insight)
- •High active share with lower TE (informed bets)
- •Multi-manager structures with less correlated individual manager styles (diversity)

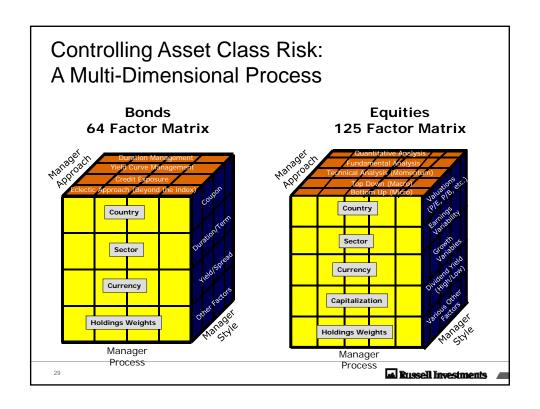
27

Russell Investments

Why do Good Managers Underperform?

- □Style is out of favour (a growth manager in a value market);
- ☐ The manager didn't buy a poor stock which is currently rising (BreX, Nortel). It may take several years for the whole story to play out;
- □The manager bought good stocks, but too early, as they are out of favour or not yet recognized by the market (homebuilding stocks cheap valuations in 1998 were not recognized until major rate cuts in 2001);
- □One time random events sideswipe the market taking the focus off valuations (bad luck or noise, events such as September 11th, the GFC or the Mid East Crisis);
- ☐ The market is skewed in one direction due to **greed or fear** (food industry in a tech bubble).

28



Two Global Equity Products Managed by the Same Firm for about 4 Years

- Similarities
- Similar investment process
- Country constraints identical
- Same research platform (122 analysts, 9 sector PMs & 58 regional PMs)
- Differences
- Large cap (not <\$5B cap) vs all cap, median cap similar (\$30B)
- Individual position size .3% to 3.0% vs .5% to 5.0%
- Different PMs

	VA to MSCI AC	Standard Deviation	Beta	Tracking Error
Large Cap	+5.7%	12.9	1.17	4.9
All Cap	+0.5%	13.0	1.19	5.0

3

Prepare An Asset Class Strategy

- □ Specify \$AUM, beliefs, objectives, time horizons, expected added value, risk-constraints
- □ Articulate suitable investment strategy, including economic number of mandates and portfolio guidelines
 - ☐ At total fund level for balanced structures
 - □ At asset class level for specialty structures

When developing strategies:

- □ Value-added comes from picking managers
- □ Risk reduction comes from combining managers



Without a clearly defined strategy consistent with your risk tolerance and objectives, the battle may be already lost!

31

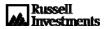
Russell Investments

Requirements to Perform this Process Right:

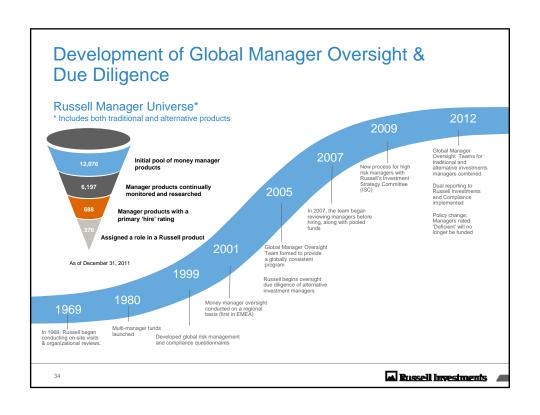
- □ Superior due diligence founded in fundamental research; need to know what works / doesn't work.
- Ongoing research of a broad array of management styles, processes and asset classes.
- □ Excellent ongoing monitoring of individual managers and asset class holdings to control for risk;
- □ The ability to make changes *quickly* to the managers and their respective weightings to maintain alpha and limit risk.

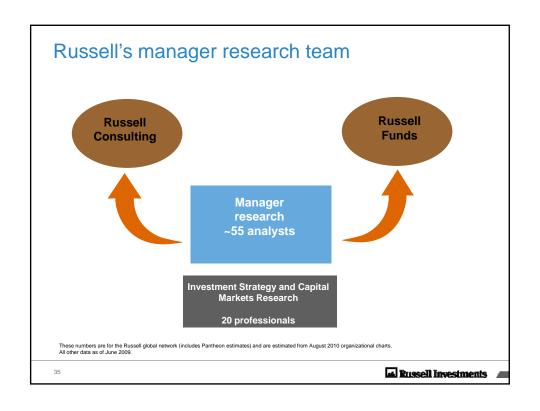
Resources and Patience!

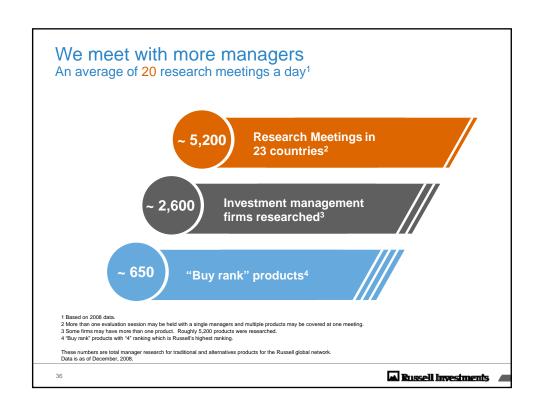
32

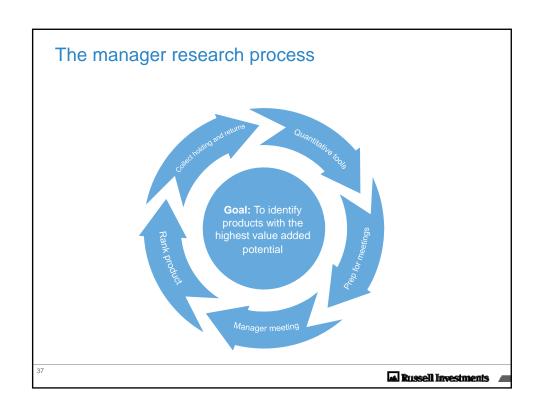


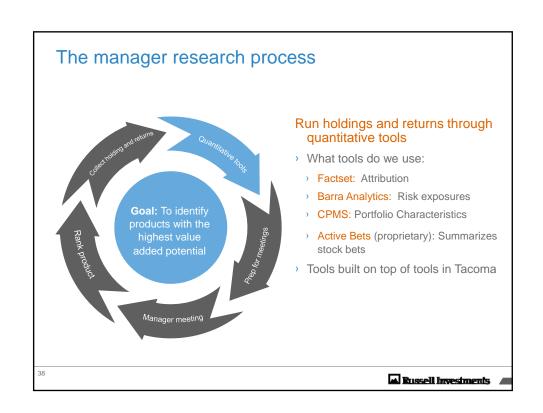
Appendix

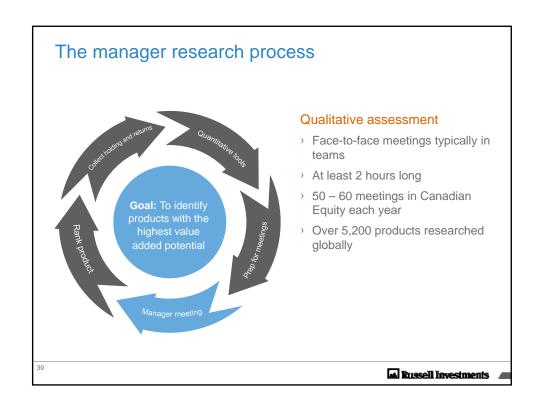


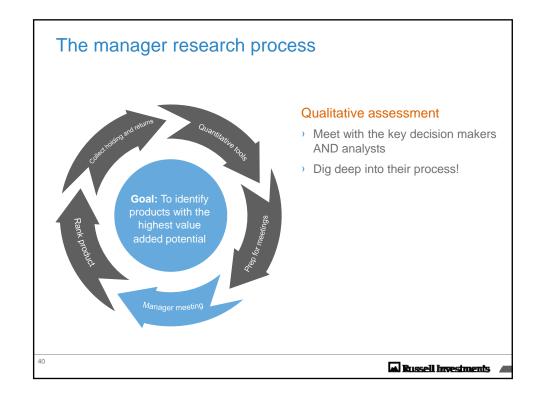


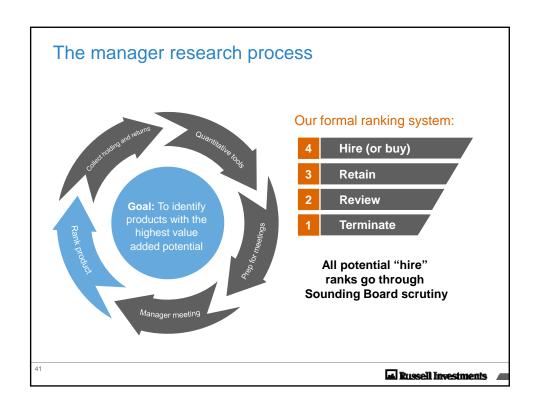


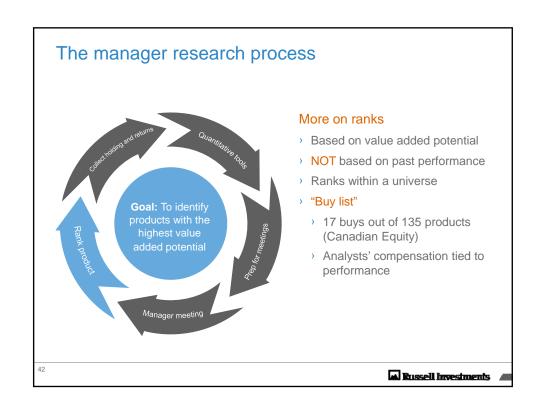


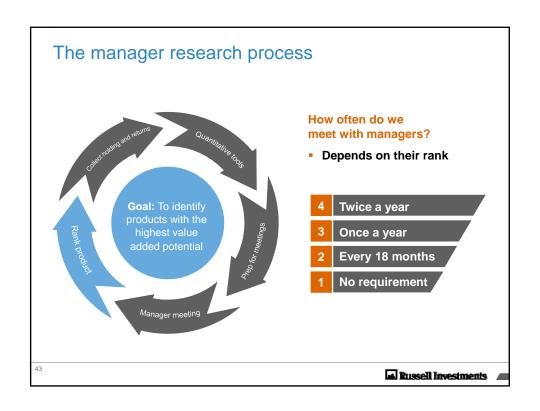


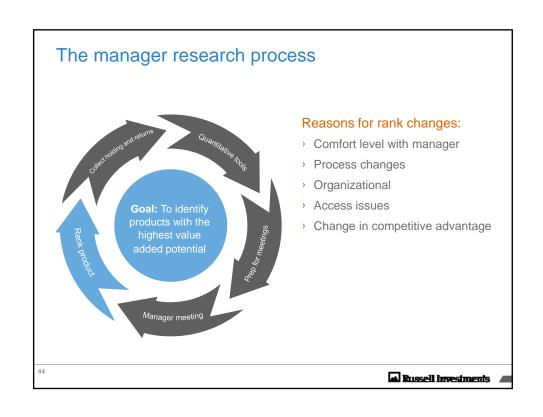


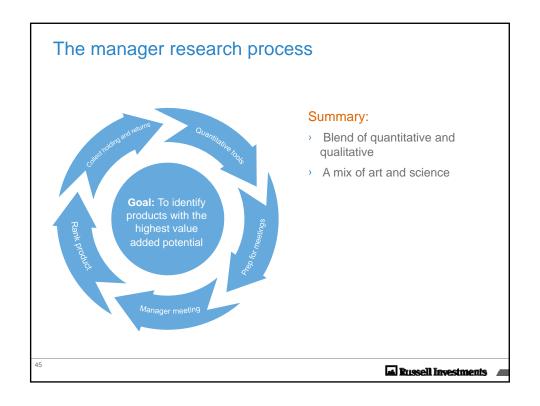


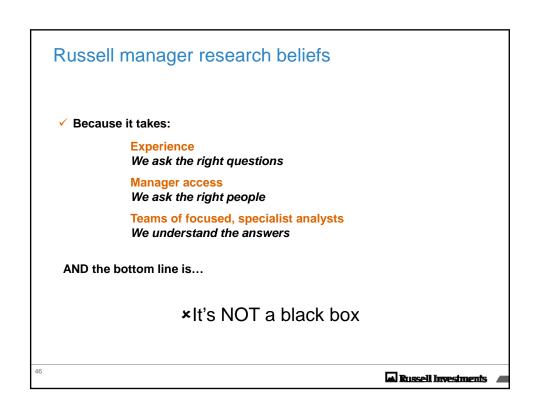












- 1. Investment staff
- 2. Organizational environment
- 3. Security selection
- 4. Research
- 5. Portfolio construction
- 6. Sell discipline
- 7. Implementation

Russell Investments

Research categories What do we focus on?

Investment staff

- › Quality and experience?
- > Level of resources?
- Unique investment insight?

Organizational environment

- > Breakdown of firm ownership?
- Compensation?
- Investment culture?

Russell Investments

Research categories What do we focus on?

Security selection

- > Top down or bottom up?
- > Where do new ideas come from?
- > What factors do they focus on?

Research

- > How many analysts are there?
- > Is their coverage global?
- Do they rely on sell-side research?

Russell Investments

Research categories What do we focus on?

Portfolio construction

- How is the portfolio constructed?
- > How do they decide on stock weights?
- › Are there any biases?

Sell discipline

- > How responsive are they?
- > What determines a sell?
- What is their turnover?

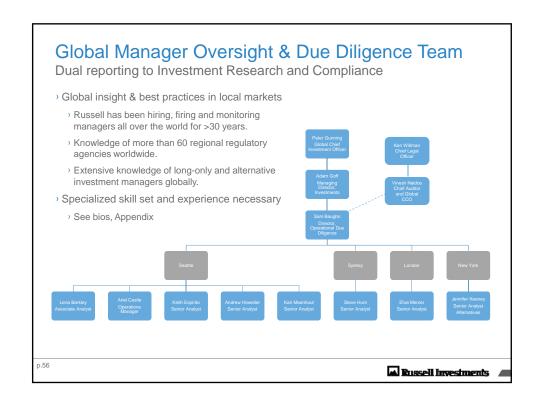
Russell Investments

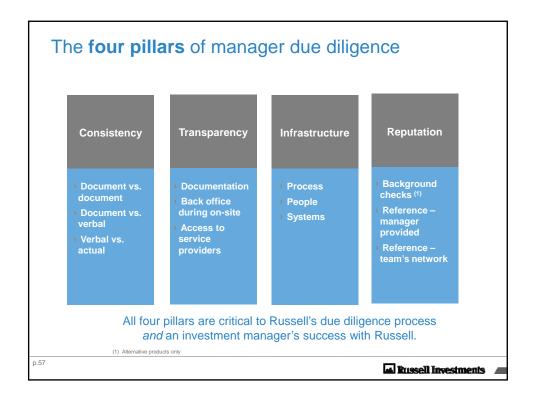
Research categories What do we focus on?

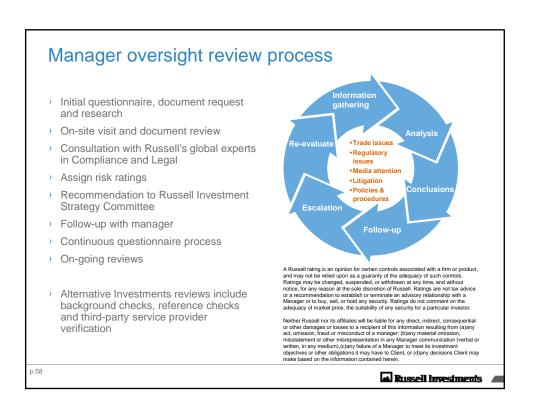
Implementation

- How are decisions made?
- > How do ideas get from analyst to pm?
- › How big are assets under management?

Conclusion Manager research and selection at Russell > Time Resources Thought Key: Completely independent views of managers! Russell was voted tops in manager due diligence **TOP DUE DILIGENCE** by participants in a 2010 FundFire survey of institutional sales professionals. FundFire survey IN MANAGER RESEARCH participants singled out Russell for its pre-meeting preparation, thorough questioning and clear focus 2010 FUNDFIRE SURVEY on risk management. Russell Investments FOR ADVISOR USE ONLY







Manager oversight review process

- > Initial review
 - Russell conducts on-site reviews of all managers prior to implementation in Russell funds or client accounts.
 - Managers rated 'Deficient' are not hired
 - Russell works with managers not rated 'Satisfactory' or 'Monitor' to improve.
- Ongoing reviews
 - Russell conducts ongoing reviews of all managers.
 - Review schedule is based on perceived risk to Russell and clients; however, all managers are reviewed at least every two years (on-site or remotely).

1.0 FIRM / BUSINESS RISKS

- Firm history / Ownership
- Organizational structure
- → ■■■■ Business activities
- Governance
- IT and BCP

2.0 COMPLIANCE RISKS

- Firm-wide monitoring
- Compliance culture
- Regulatory / Audits / Legal
- Privacy / Personal info security

3.0 TRADING / OPERATIONAL RISKS

- Trade process
- Settlement / Reconciliation
- > Pricing policy and procedures
- Trade / Operational errors
- Best exec / Counterparty
- → Soft dollars

p.59

Russell Investments

Manager oversight review process

Fund reviews

- > Fund reviews
 - Russell conducts on-site reviews of all alternative investments funds and desktop reviews of long-only pooled funds prior to implementation in Russell funds or client accounts.
 - > Funds rated 'Deficient' are not hired
 - Russell works with managers of funds not rated 'Satisfactory' or 'Monitor' to improve.
 - Funds are reviewed ongoing; reviews are conducted at least every two years (on-site or remotely).

4.0 FUND STRUCTURE

- Legal structure
- Governance
- Third-party relationships
- Fees and expenses
- Subscription / Redemption terms
- Investor details
- Cash controls
- NAV process
- Portfolio

p.60

