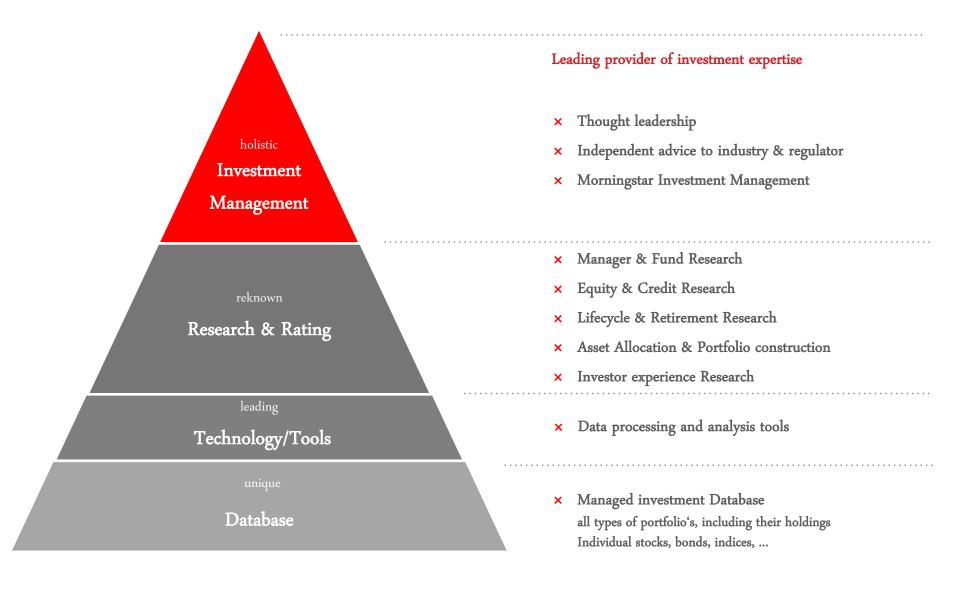
# The Power of Moats: Competitive Advantages Drive Superior Performance

Ben Granjé

Sales Director, Morningstar Benelux Ben.granje@morningstar.com

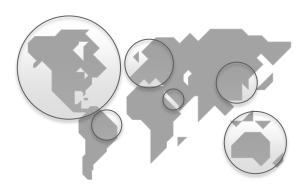
October 6, 2014. VFB Heusden

#### Morningstar – the thirty second intro



# **Morningstar Equity Research Comprehensive Equity Coverage**

#### By Region, Market Cap, and Sector



R	egi	on	al	Co	OV	er	ad	е

Asia	81
Australia/New Zealand	219
Europe	255
Latin America	34
Middle East/Africa	39
North America	817
<b>Total Global Coverage</b>	1,445

#### **Market Cap Coverage**

Large-can Stocks

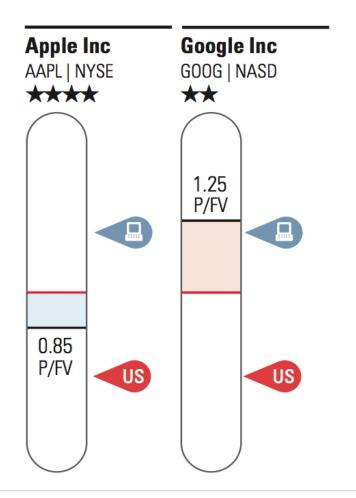
!	(10+ Bil USD)	684				
@	Mid-cap Stocks (2-10 Bil USD)	545				
#	Small-cap Stocks (0-2 Bil USD)	216				
	Market cap data as of 02/2014 Regional and Sector data as of 02/2014					

#### **Sector Coverage**

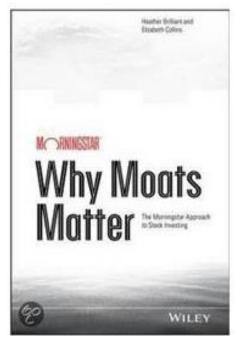
h Cyclical

M RNINGSTAR						
f	Utilities	83				
d	Health Care	137				
s	Consumer Defensive	106				
k	Defensive					
а	Technology	137				
p	Industrials	204				
0	Energy	130				
i	Communication Services	62				
j	Sensitive					
u	Real Estate	45				
у	Financial Services	194				
t	Consumer Cyclical	211				
r	Basic Materials	136				
•••	o y o no an					

#### **Morningstar Research – What Is It?**











### Morningstar Analyst-Driven Equity Research

Fundamental Analysis

Company Valuation

Fair Value Estimate

Uncertainty Assessment

Analyst conducts company and industry research:

- Financial statement analysis
- Channel checks
- Trade show visits
- Industry and company reports and journals
- Conference calls
- Management and site visits

Analyst rates the strength of competitive advantage, or moat: None, Narrow, or Wide

Advantages that confer a moat:

- High switching costs (Microsoft)
- Cost advantage (Wal-Mart)
- Intangible assets (Johnson & Johnson)
- Network effect (MasterCard)
- Efficient Scale (Lockheed Martin)

Analyst considers past financial results and focuses on competitive position and future prospects to forecast cash flows.

Analyst enters assumptions into Morningstar's proprietary discounted cash flow model.

Analyst uses a discounted cash flow model to develop a Fair Value Estimate, which serves as the foundation for the Morningstar Rating™ for stocks.

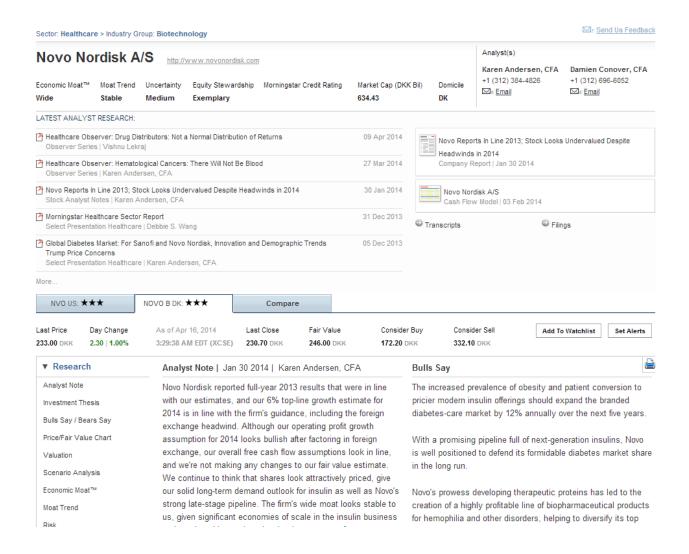
The analyst then evaluates the range of potential intrinsic values for the company and assigns an uncertainty rating: Low, Medium, High, Very High, or Extreme.

This uncertainty rating determines the margin of safety required before the analyst recommends the stock. The higher the uncertainty, the wider the margin of safety.

The current stock price relative to Morningstar's Fair Value Estimate, adjusted for uncertainty, determines the Morningstar Rating for stocks.

The Morningstar Rating for stocks is updated each evening after the market closes.

#### **Morningstar Research – What Is It?**





# Morningstar<sup>®</sup> Economic Moat<sup>™</sup> Rating Morningstar Strategy

#### **Basic Premise: Long-Term Oriented, Fundamental Analysis Works!**

- Evaluate stocks as small pieces of business
- Perform primary, fundamental research
- ➤ Take a long-term perspective
- Access competitive advantages
- Calculate appropriate margin of safety

Invest in companies with strong and growing competitive advantages (Moats), trading at reasonable prices



#### So, What is a Moat?



#### **OK, What is an Economic Moat?**

- Capital flows to the areas of highest potential return, so all firms face competition that seeks to force down high returns on capital.
  - > But some firms generate high returns for a very long time.
  - >How? By creating economic moats around their businesses.
- An economic moat is a <u>structural</u> business characteristic that allows a firm to generate excess economic returns for an extended period.
  - Firms with moats have ability to invest incremental capital at high rates of return = faster earnings growth and/or higher free cash flow.
  - > Firms with moats have more predictable cash flows, limiting the risk.



#### What is NOT an Economic Moat?

- ➤ Size / Dominant Market Share: High market share does not give a firm a moat. (Ask Compaq or GM.)
- ➤ Technology: What one smart engineer can invent, another engineer can make even better.
- ➤ Hot Products: Can generate high returns on capital for a short period of time, but sustainable returns are what make a moat.
- Process: Can be imitated with time. Witness Dell.



#### What about Management?

- In our view, management is not a moat <u>by itself</u>, but smart (or dumb) managers can create (or destroy) a moat over time.
  - > "Go for a business that any idiot can run because sooner or later, any idiot probably is going to run it." Peter Lynch
  - ➤ "When management with a reputation for brilliance tackles a business with a reputation for poor economics, it is the reputation of the business that remains intact." Warren Buffett

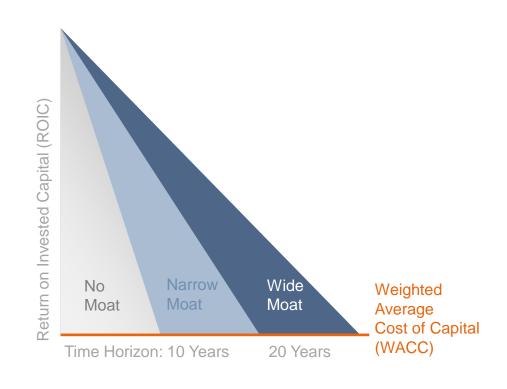


# Morningstar<sup>®</sup> Economic Moat<sup>™</sup> Rating Measuring a Moat

#### Moat (Quantitatively): Return On Invested Capital (ROIC) Is Key

- **▶** Use Cash Flows not Earnings
  - **≻Cash is King!**
  - Lack of IFRS/GAAP earnings now not hindrance to moat creation
- **▶IC:** Compare apples to apples
  - >Adjust IC when needed
- Estimate appropriate cost of capital

Duration of excess returns is far more important than absolute magnitude





#### **History of Morningstar Moat's Rating**

- **➤** Warren Buffett in a 1999 Fortune magazine article wrote:
  - > The key to investing is not assessing how much an industry is going to affect society, or how much it will grow, but rather determining the competitive advantage of any given company and, above all, the durability of that advantage. The products or services that have wide, sustainable moats around them are the ones that deliver rewards to investors.
- Morningstar initiated economic moat rating in late 2002, subdividing entire coverage universe into three moat buckets: none, narrow, wide. This system remains in place today.
  - > Our approach to equity analysis builds on the Ben Graham and Warren Buffett school of investing. It would be hard to find two better mentors and we're grateful and indebted to them for all that they have done for investors... concepts such as 'Margin of Safety' and 'Economic Moats'.

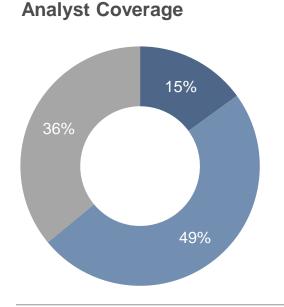
Joe Mansueto, Morningstar's Founder

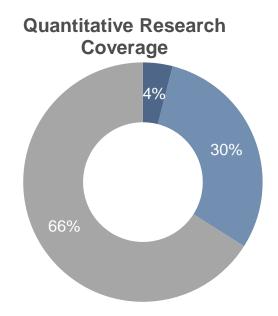


# Morningstar<sup>®</sup> Economic Moat<sup>™</sup> Rating Moat Rating Distribution

Our coverage universe skews toward companies with economic moats, though in the overall economy, most firms do not have an economic moat.

Morningstar Coverage Universe Moat Rating Distribution | Widelloat Namew Moat No Moat

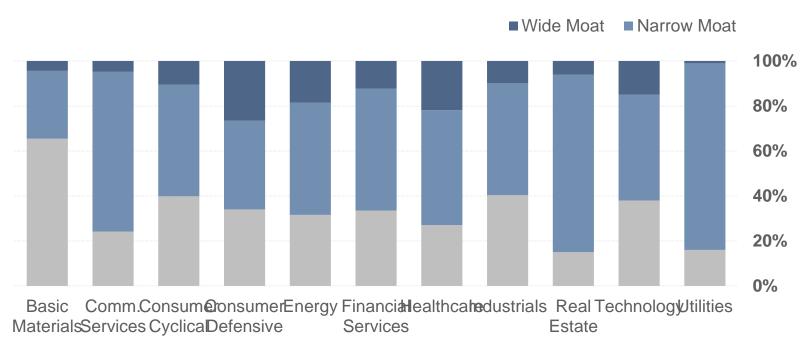






# Morningstar<sup>®</sup> Economic Moat<sup>™</sup> Rating Moat Rating Distribution

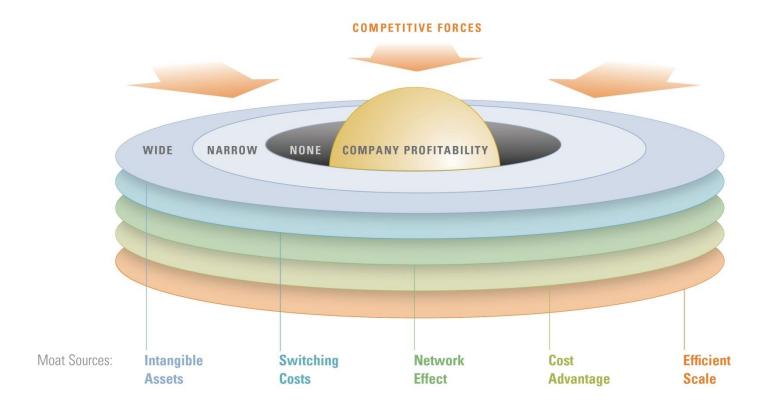
# Moats are not equally distributed across sectors. Highly commoditized or competitive industries will have fewer companies with moats



Data as of March, 2014

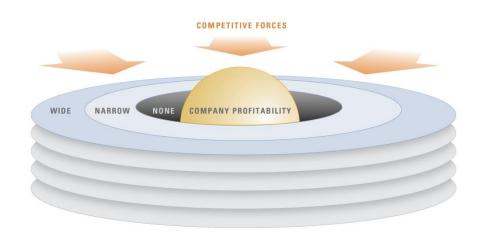


#### The Five Sources of Sustainable Competitive Advantage



#### **Intangible Assets**

- Includes brands, patents, and regulatory licenses
- Brand increases the customer's willingness to pay
- Patents protect pricing power legally barring competition
- Government regulations hinder competitors from market.







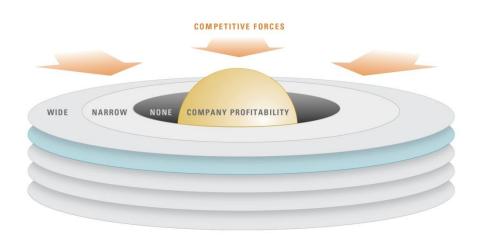






#### **Switching Costs**

- > Time = Money and vice versa
- ➤ The value of switching exceeds the expected value of the benefit
- Razor and blade model entrench repeat consumables customers
- Price not the only determinant





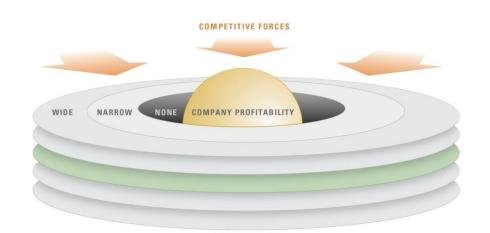






#### **Network Effect**

- The value of a particular good or service increases for both new and existing users as more customers use that good or service
- With each additional node, the number of potential conne grows exponentially







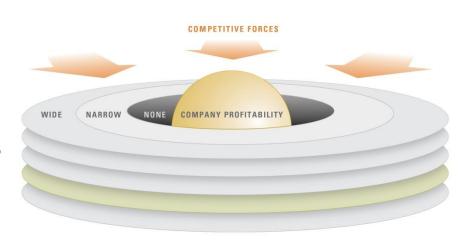






#### **Cost Advantage**

- Sustainably lower costs than competitors
- ▶Irreplaceable process advantages
- **≻**Superior location
- > Hard-to-amass scale
- >Access to a unique asset







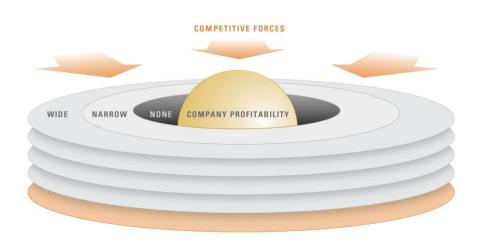






#### **Efficient Scale**

- Dynamic in which a market of limited size is effectively served by few companies
- Incumbents generate economic profits
- Newcomers discouraged from entering because returns in the market fall below the cost of capital









#### Morningstar<sup>®</sup> Economic Moat<sup>™</sup> Trend Moat Trend Concept

### Moat Trend is a detectable direction of change in the competitive position of a company's businesses







# Morningstar Performance Why Moats Matter –Performance

#### Moat isn't always priced in!

- Two companies with similar growth rates, returns on capital, and reinvestment needs:
  - >The "moaty" company has a higher value
  - Moats provide a margin of safety
  - > Companies with moats likely to continue to compound in value
- g Overestimating a moat = paying for unlikely value creation
- Why isn't the moat already priced in?
  - Time-horizon arbitrage: market is myopic, and moats matter more in the long run
  - Recency bias: investors project the way the world is today much too far into the future

Waiting for moats, particularly wide, to get cheap pays off!

#### Morningstar Performance The Effectiveness of Our Ratings Over Time

#### **Focus on Moats Works!**



	(70)	

Index	1-Year	3-Year	5-Year	10-Year	(09/30/2002)
Morningstar® Wide Moat Focus Index <sup>SM</sup>	22.3	17.5	24.6	12.6	15.9
S&P 500 Index (cap-weighted)	21.5	13.9	19.2	6.8	9.3

Data from September 30, 2002 through January 31, 2014



### Morningstar Performance Wide Moat Index

#### **Current Composition**

- Baxter International (BAX)
- Berkshire Hathaway B (BRK.b)
- BlackRock Inc (BLK)
- CH Robinson Worldwide (CHRW)
- Coca-Cola (KO)
- Core Laboratories (CLB)
- eBay (EBAY)
- Exelon Corp (EXC)
- Expeditors International (EXPD)
- Express Scripts (ESRX)
- Franklin Resources (BEN)

- General Electric (GE)
- International Business Machines (IBM)
- National Oilwell Varco (NOV)
- Philip Morris International (PM)
- Procter & Gamble (PG)
- Schlumberger (SLB)
- Spectra Energy Corp (SE)
- Sysco Corp (SYY)
- Western Union (WU)



#### Morningstar Performance Morningstar Equity Research

#### Morningstar Indexes and Portfolios vs. S&P 500

**Trailing Annualized Returns (%)** 

	1-Year	3-Year	5-Year	10-Year
Morningstar® Wide Moat Focus Index <sup>SM</sup>	22.3	17.4	24.6	12.6
Morningstar Tortoise Portfolio	17.4	14.4	16.8	7.8
Morningstar Hare Portfolio	26.4	15.7	23.5	11.5
Morningstar Dividend Builder	14.2	15.0	16.8	_
Morningstar Dividend Harvest	15.9	17.6	23.5	_
Buy at 5-Star/Sell at 3-Star	17.4	12.1	27.0	13.1
Morningstar Large-Cap Blend Mutual Fund Cat.	20.3	12.0	17.8	6.1
S&P 500 Index (cap-weighted)	21.5	13.9	19.2	6.8

Source: Morningstar

Time-weighted returns through: February 28, 2013



#### Morningstar® Coverage Top Picks Across Sectors

#### A few investment ideas to leave you with...

Company	Moat	Ticker	Morningstar Rating	Investment Rationale
Berkshire Hathaway	Wide	BRK B	QQQQ	Berkshire's ability to take excess cash flows generated by its different businesses and invest them back into projects that earn more than its cost of capital is unparallelled.
BioMarin Pharma	Narrow	BMRN	QQQQ	With a growing portfolio in an attractive rare disease nicheand a likely turn to profitability in 2015BioMarin could be an acquisition target for pharmaceutical firms with pipelines to fill.
Core Laboratories N.V.	Wide	CLB	QQQQ	Core Labs is a cash-flow machine, and the firm's returns on invested capital are some of the highest in the industry (and the overall market).
Gilead Sciences	Wide	GILD	QQQQ	With the approval of Sovaldi, Gilead holds claim to the only all-oral hepatitis C treatment regimen. None of Gilead's competitors have other proven nucleotide analogs approaching the market, making the \$11 billion acquisition of Pharmasset look like a bargain.
Novo Nordisk A/S	Wide	NOVO B	QQQ	Entrenched in the fast growing diabetes industry, Novo should post solid growth over the next decade.
Sanofi	Wide	SNY	QQQQ	Well-positioned Lantus should lead steady and improving growth for the overall company.
Swatch Group AG	Wide	UHR	QQQQ	Swatch Group's competitive position is underappreciated; brands and technologies earn it a wide moat



### Morningstar® Coverage Top Picks Across Sectors

#### And a few to avoid...

Company	Moat	Ticker	Morningstar Rating	Investment Rationale
Airlines ALL OF THEM	None			Just not good businesses. Stay away
Bayer AG	Narrow	BAYN	QQ	Bayer's narrow moat versus wide moats for its peers, stems from its exposure to no-moat non-healthcare sectors. The company is also trading at a premium to its better-positioned peers.
BiogenIdec	Wide	BIIB	QQ	BiogenIdec's success in MS, and positive data on key drugs have moved the stock to the positions that are hard to justify. Even a wide moat firm can be overpriced!
Netflix	None	NFLX	QQ	The market is too optimistic about Netflix's future sales growth and profitability potential. We remain extremely skeptical about Netflix's aggressive international push. Subscribers not equal to moat.
Shire PLC	Narrow	SHP	QQ	Strong growth in several drugs mask the risk of patent expirations and Sanofi's competition in rare disease therapeutics.
Vestas Wind Systems A/S	None	vws	QQ	While focus on the only renewable energy source offers excitement for Vestas shares, competitors are investing heavily in the market and Vestas' hold on the European market is in jeopardy.





### Morningstar® Quantitative Equity Research

VFB Dag van de Tips.



Ben Granjé CD Morningstar Benelux

October 4, 2014



### Why Develop Quantitative Ratings?

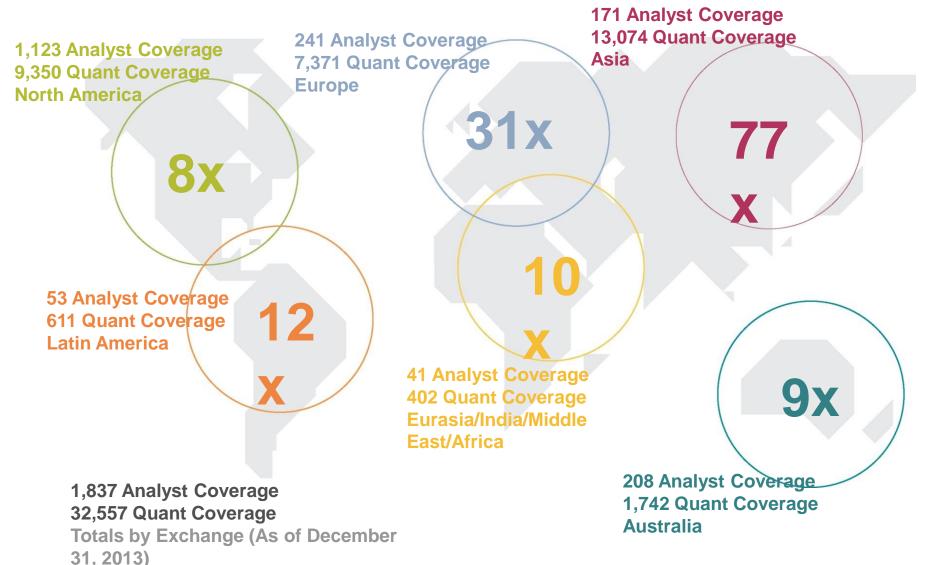
- Need greater breadth of coverage
  - Research Client demand
  - Internal demand (ETFs, Funds)
- Increasing analyst staff to meet needs is not economically feasible
- More ability to probabilistically model stocks
- Differentiated (non-commodity) data points



### **A Brief History**

- Morningstar covers ~1500 companies globally with our staff of 120 equity analysts
- In 2012, Morningstar launched quantitative stock research covering some 32,000 companies. The Quant universe has grown exponentially, reaching ~ 50,000 stocks (100,000 shares) globally (86 countries of domicile, 64 exchanges) by August 2014. These are product-ready as PDF reports or Data feed.
- Quant ratings are analogous to analyst-driven ratings
  - Moat
  - Fair Value
  - Uncertainty
  - Financial Health
- Quant ratings are predictive of future alpha distribution

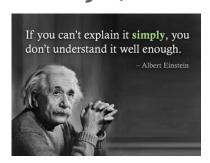
### **Comprehensive Global Equity Coverage**



### What are the Quantitative Stock Ratings?

Hypothesis:

Analyst Moat  $\approx f(some input variables)$ 



- What inputs might be relevant to a moat rating?
  - Size

× Valuation

**×** Liquidity

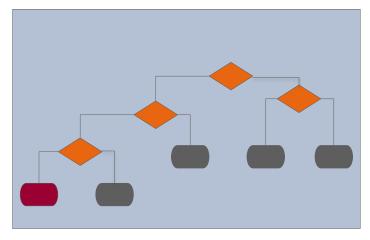
- Risk

× Sector/Industry

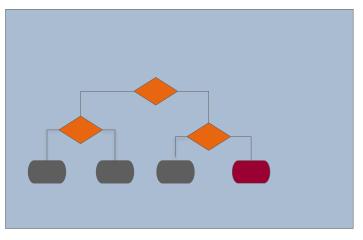
- × etc.
- Use statistical algorithm to determine f

### Decision trees, multiplied into a Random Forest

Tree 1



Tree 2



**Tree 2 Prediction: 1.1** 

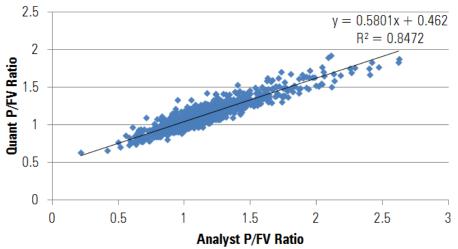
Tree 1 Prediction: 0.8



Random Forest Prediction = (0.8 + 1.1) / 2 = 0.95

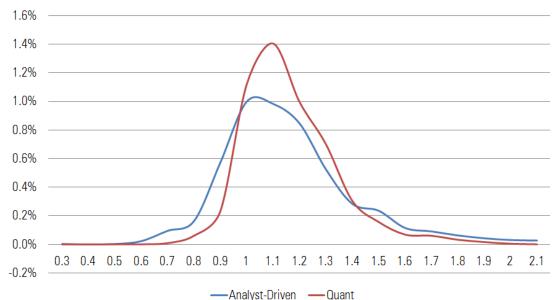
- Choose **Approach**
- **Gather Data**
- **Build Model(s)** 
  - Generate Ratings **Evaluate**

### **Quant Comparison to Analyst-Driven**



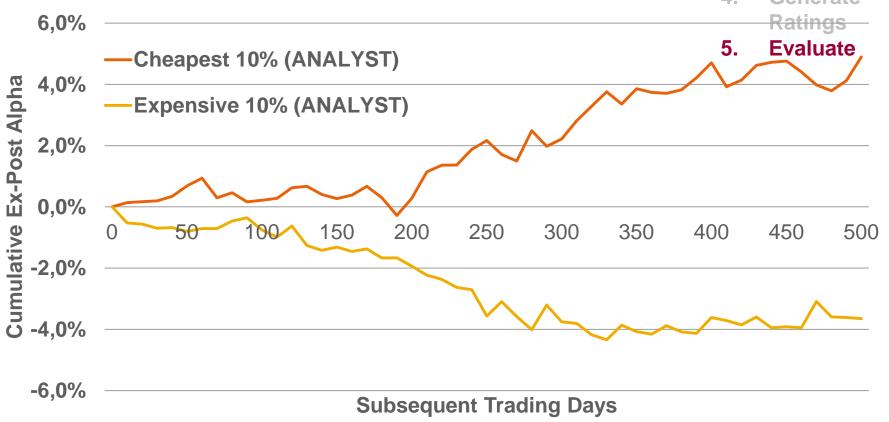
- 1. Choose Approach
- 2. Gather Data
- 3. Build Model(s)
- 4. Generate Ratings
- 5. Evaluate

 Less than 3% of analyst coverage universe meaningfully disagrees with direction of analyst recommendation



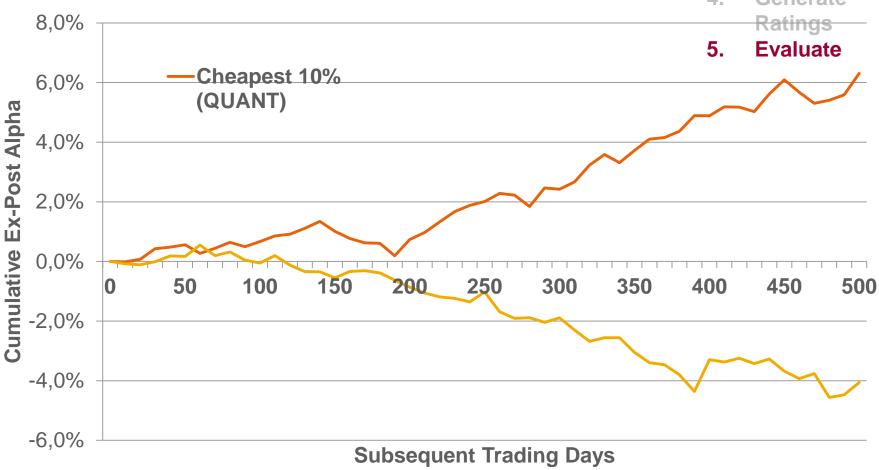
### **Analyst-Driven Ratings (Benchmark)**

- 1. Choose Approach
- 2. Gather Data
- 3. Build Model(s)
- 4. Generate

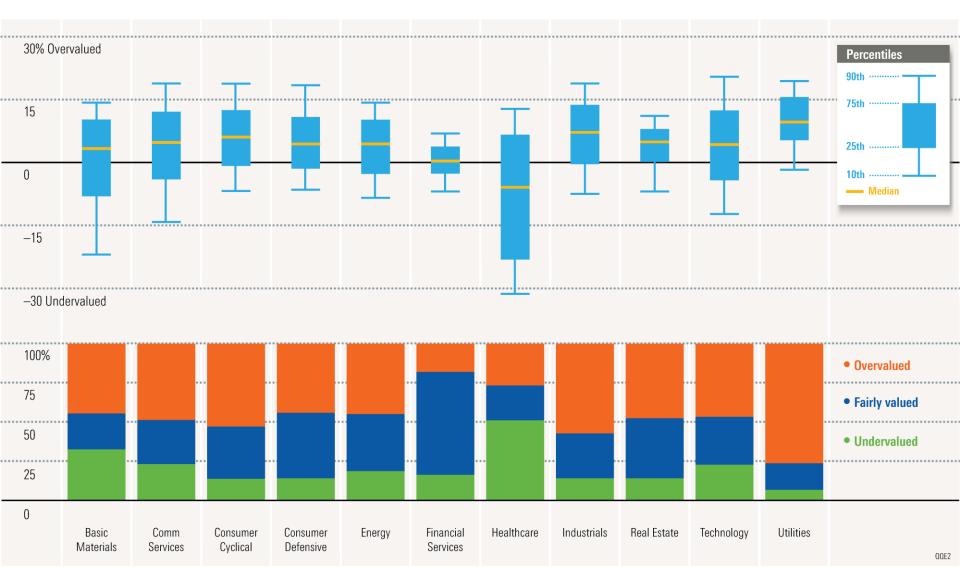


### **Quant Ratings**

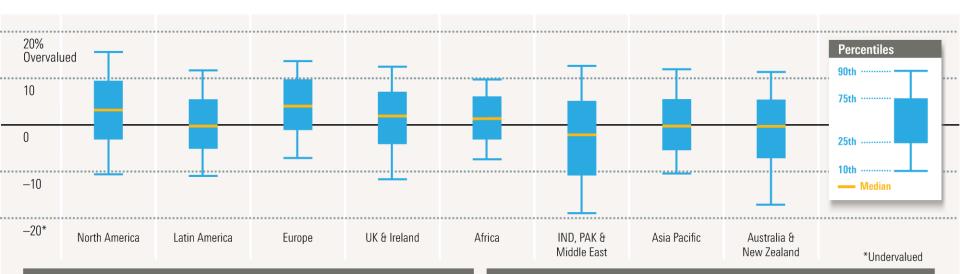
- 1. Choose Approach
- 2. Gather Data
- 3. Build Model(s)
- 4. Generate



#### Morningstar Quantitative Price to Fair Value Distribution by U.S. Sector



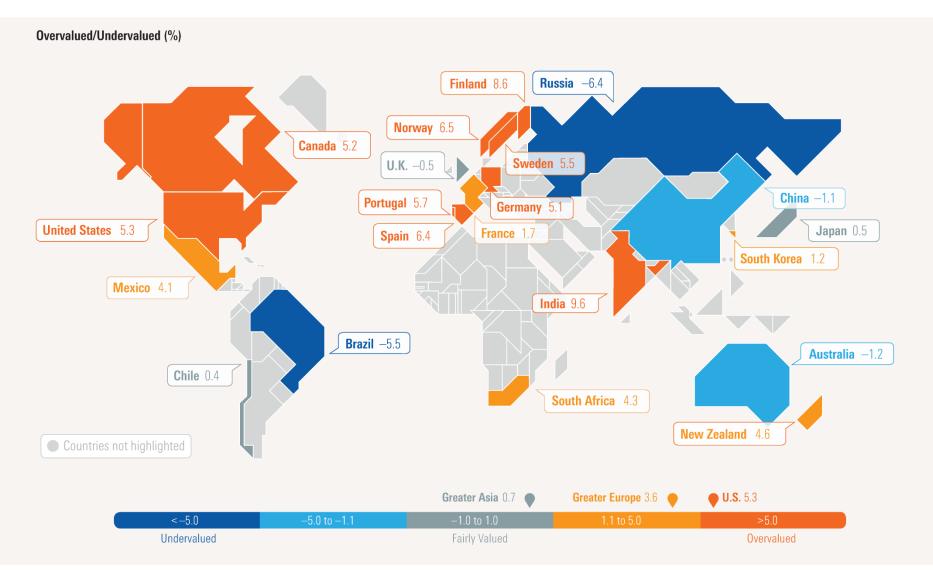
#### Morningstar Quantitative Price to Fair Value Distribution by Region



Top 10 Most Undervalued Countries								
Country	Undervalued By (%)	Uncertainty Rating	Number of Companies					
Russia	-6.4	High	115					
Iraq	-6.0	Extreme	27					
Brazil	<b>–</b> 5.5	High	181					
Bangladesh	-3.7	Very High	245					
Hong Kong	-2.4	High	170					
Turkey	-2.2	High	339					
Cyprus	<b>−1.4</b>	High	20					
Australia	<b>-1.2</b>	Medium	430					
China	<b>−1.1</b>	High	2,340					
Nigeria	-0.7	Very High	93					

Top 10 Most Overvalued Countries								
Country	Overvalued By (%)	Uncertainty Rating	Number of Companies					
Denmark	10.4	High	121					
India	9.6	High	2,816					
Finland	8.6	High	100					
Indonesia	7.9	Very High	334					
Saudi Arabia	6.8	High	154					
Norway	6.5	Medium	125					
Greece	6.5	Very High	75					
Spain	6.4	Medium	99					
United Arab Emirates	6.1	High	59					
Ireland	5.9	Medium	55					

#### Morningstar Quantitative Price to Fair Value Distribution by Region



### Q & A

- Why is the quant (moat/valuation/uncertainty)
  different from the analyst
  (moat/valuation/uncertainty) for company XYZ?
- Which rating should I trust? The quant or the analyst?
- Will the quantitative equity ratings replace the qualitative analyst ratings?
- What does the new Quantitative Equity Research
   Report contain?