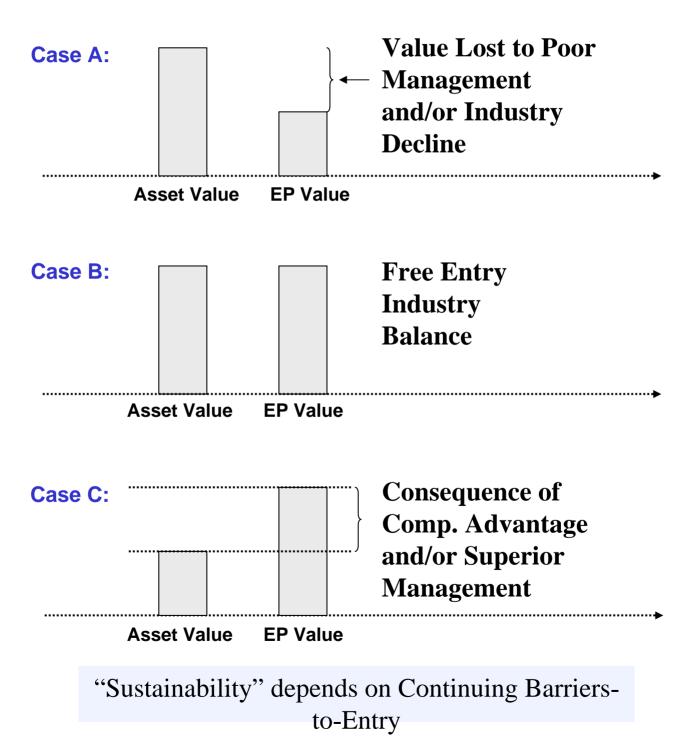
# **Value Investing Principles**

- Identify enterprises whose value as a business is reliably calculable by you (circle of competence)
- Among those enterprises, invest in those whose market price (equity plus debt) is below your calculated value by an appropriate margin of safety (1/3 to 1/2)

# **Earning Power and Entry - Exit**

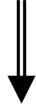


# **Varieties of Competitive Advantage**

<u>Producer (Cost) Supply</u> – Proprietary Technology or Resources

**Consumer (Revenue) Demand** – Customer Captivity

**Economies-of-Scale (plus Customer Captivity)** 



Key to Sustainability

Sustainable Competitive Advantage implies market dominance.

## **Varieties of Competitive Advantage**

Proprietary Technology Proprietary Resources

Not smarter; or deep pockets involved

Captive Customers - Not Brands

- •Habit
- Search Costs
- Switching Costs

Problem is that these advantages die with technology and consumers.

Economies of Scale, however, apply in market for new technology (Intel) and new customers.

# Competitive Advantage Strategy Implications

- Analysis on a market-by-market basis
- Large global markets are difficult to dominate
- <u>Local</u> markets (Physical, product geography) are ones susceptible to domination
  - Microsoft (Apple, IBM)
  - Wal-Mart (K-Mart, Circuit City)
  - Intel (Texas Instruments, et al)
  - Verizon (ATT, Sprint)
  - Pharmaceuticals

# **Value Investing Process**

#### **SEARCH**

- Cheap
- Ugly
- Obscure
- Otherwise Ignored

#### **VALUATION**

- Assets
- Earnings Power
- Franchise

#### **REVIEW**

- Key Issues
- Collateral Evidence
- Personal Biases

#### **RISK MANAGEMENT**

- Margin of Safety
- Some Diversification
- Patience Default Strategy

## **Basic Elements of Value**

#### **Strategic Dimension Growth in Franchise Only Franchise Value Current Competitive Advantage Free Entry No Competitive Advantage Total Value Asset Value Earnings Power** Reliability **Value** • Includes **Dimension** • Tangible Current Growth Earnings • Balance Sheet Extrapolation Based Extrapolation

• No

Extrapolation

• No Forecast

Forecast

### **Total Value Including Growth**

- Least reliable Forecast change not just stability (Earnings Power)
- Highly sensitive to assumptions
- Data indicates that investors systematically overpay for growth
- Strict value investors want growth for "Free" (Market Value < Earnings Power Value)

### Value of Growth - Basic Forces At Work

 Growing Stream of Cash Flows is more Valuable than a Constant Stream (relative to current Cash Flow)

I.E. 
$$CF_0 * \left(\frac{1}{R \cdot G}\right) \text{ vs. } CF_0 * \frac{1}{R}$$

WACC Growth Rate

 Growth Requires Investment which reduces current (distributable) Cash Flow

# Valuing Growth Basic Algebra

Necessary Investment to Support Growth at G% PA
$$= G * Capital_{Beg Yr}$$

Value of Growing Firm = 
$$CF_0 * \frac{1}{R - G} = \frac{(ROC - G) * Capital_{Beg Yr}}{R - G}$$

$$= \left(\frac{ROC - G}{R - G}\right) Capital_{Beg Yr}$$

$$= \left(\frac{ROC - G}{R - G}\right) Capital_{Beg Yr}$$

Critical Valuation Factor is 
$$\frac{ROC - G}{R - G}$$

Part 4, Page 4

# **Valuing Growth**

#### Case 1:

- ROC  $\equiv$  Return on Capital  $\equiv$  Cost of Capital  $\equiv$  R
- Then  $\frac{ROC G}{R G} = \frac{R G}{R G} = 1$  (for all growth rates)

ROC = R when there are no Barriers-to-Entry (i.e. no competitive advantages – level playing field) then Growth has no Value.

$$G = 0\% \frac{ROC - G}{R-G} = \frac{10 - 0}{10 - 0} = 1$$

$$G = 2\%$$
  $\frac{ROC - G}{R-G} = \frac{10 - 2}{10 - 2} = 1$ 

$$G = 8\%$$
  $\frac{ROC - G}{R-G} = \frac{10 - 8}{10 - 8} = 1$ 

# **Valuing Growth**

#### Case 2:

- Competitive disadvantage with growth
- → ROC less than cost of capital
  - then  $ROC G < R G \rightarrow ROC G < 1$  R G
  - and ROC G gets smaller with higher growth rates. R G

Higher Growth at a Competitive Disadvantage Destroys Value

$$G = 0\% \frac{ROC - G}{R-G} = \frac{8-0}{10-0} = .8$$

$$G = 2\% \frac{ROC - G}{R-G} = \frac{8-2}{10-2} = .75$$

$$G = 8\% \frac{ROC - G}{R-G} = \frac{8-8}{10-8} = 0$$

### **Valuing Growth**

#### Case 3:

- ROC is greater than R Firm enjoys a competitive advantage (franchise)
- $\rightarrow$  Shares are stable  $\rightarrow$  G = Industry Growth Rate
- then ROC G is greater than R G
- and ROC G is greater than 1 and increasing in G. R G

$$G = 0\% \frac{ROC - G}{R-G} = \frac{15 - 0}{10 - 0} = 1.5$$

$$G = 2\%$$
  $\frac{ROC - G}{R-G} = \frac{15 - 2}{10 - 2} = 1.625$ 

Only within Franchise Growth creates Value

$$G = 8\% \frac{ROC - G}{R-G} = \frac{15 - 8}{10 - 8} = 3.5$$

# Value of Growth Quantitative Effects

**Investment**: • \$100 million

**Cost of Funds:** • 10% (R) = \$10M

Return on Investment (%)	5%	10%	20%
Return on Investment (\$)	\$5M	\$10M	\$20M
Cost of Investment	\$10M	\$10M	\$10M
Net Income Created	(\$5M)	0	\$10M
Net Value Created	(\$50M)	0	\$100M
Qualitative Impact:	Value Destroyed	No Value	Value Created
Situation:	Competitive Disadvantage	Level Playing Field	Competitive Advantage

# **Valuing Growth Basics**

- Growth at a competitive disadvantage destroys value (AT&T in info processing)
- Growth on a level playing field neither creates nor destroys value (Wal-Mart in NE)
- Only franchise growth (at industry rate) creates value

# Valuing Growth - How much Does it

# Valuing Growth How much does it add?

- Look at Value (with Growth) ÷ EP Value
- •Depend on ROC/R Franchise Strength and G/R Growth Rate

#### TABLE I

	ROC/R	1.0	1.5	2.0	2.5	3.0
G/R	0.25	1.0	1.11	1.17	1.20	1.22
	0.50	1.0			1.60	
	0.75	1.0	2.00	2.50	2.80	3.00

Entries = Value (with Growth) ÷ EPV

It takes a lot to go from 16 PE to 48 PE

#### **Procedure in Practice**

- (1) Verify existence of franchise
  - i. History Returns Share Stability
  - ii. Sustainable competitive advantages
- (2) Calculate earnings return i.e. 1/PE
- (3) Identify cash distribution portion of earnings return

### (Dividend + Repurchase)

(4) Identify organic (low investment) growth

#### (GDP±)

(5) Identify reinvestment return

#### (Multiple of Pct retained Earnings)

- (6) Compare to market return (D/P & growth)
- (7) Identify options positive/negative

# **Simple Examples Franchise Verification**

<b>Company</b>	<u>Business</u>	Adjusted ROE
Wal-Mart	Discount Retail	22.5%
American Express	High-end Credit Cards & Services	45.50%
Gannett	Local Newspapers & Broadcasting	15.6%
Dell	Direct PC Supply to Large organizations	100.0% +

# **Simple Examples Franchise Verification**

### **Sources of Competitive Advantage**

#### **Sources of Competitive Advantage**

Company	<b>Customer Captivity?</b>	Economies-of-Scale?
Wal-Mart	Slight Customer Captivity	Local Economies-of- Scale
American Express	Customer Captivity	Some Economies-of- Scale
Gannett	Customer Captivity	Local Economies-of- Scale
Dell	Slight Customer Captivity	Economies-of-Scale

### **Calculated Growth Stock Returns**

#### **Does the Franchise Exist?**

#### Sources of Competitive Advantage

- Proprietary Technology No
- Customer Captivity Some
- Economies-of-Scale Yes
   (Advertising, Distribution Regional)

Key Question – What will Nike Do?

#### **Does the Franchise Exist?**

# Industry Returns (2003-5)

<b>Company</b>	<u>Adidas</u>	<u>Nike</u>	<u>Puma</u>
Size (\$B) Sales	8.3	13.7	2.2
ROE	18.3	21.2	40.0
ROIC	33.0	37.3	137.6*
ROS (OI)	9.5	12.6	23.0*
ROS (NI)	4.7	7.8	16.6

<sup>\*</sup> Negative Trend

- •Reebok -- Acquired by Adidas (\$40B)
- •Converse Acquired by Nike
- •New Balance Private (WW Sales \$1.6B)

#### **Does the Franchise Exist?**

#### **Share Stability**

Recent History – No Entry, Consolidation

Older History – 1989-92 Adidas wiped out by Nike

1992-98 Recovery

1998-2000 Stagnation

#### **Share Stability**

	<u>Europe</u>		North A	<u>America</u>	<u>Asia</u>		
	<u>2003</u>	<u>2005</u>	<u>2003</u>	<u>2005</u>	<u>2003</u>	<u>2005</u>	
Adidas	45	43	25	23	45	44	
Nike	55	57	75	77	55	56	
Share Chg	2		2		1		

#### **Relative Returns**

		<u>CASH</u>		<u>RE</u>	GROWTH*		<b>TOTAL</b>
Adidas	=	1.0 (PE 16 <sup>2</sup> / <sub>3</sub> x		4.0 +	4.0 (9.5)	=	10.0 + <u>Option</u>
Nike	=	1.5 (PE 14 ½)	+	5.5 +	5.0	=	11.5 + <u>Option</u>
Puma	=	1.0 (PE 16 ½ x)		5.0 + (5%)	5.0 (13.0)	=	11.0 + <u>Option</u>

<sup>\*</sup> World GDP plus minimal margin improvement (currently 12-15% plus margin improvement)

# **Evaluating Growth Stocks**

### Results

<u>Stock</u>	Return
Wal-Mart	10.1
Gannett	1.0
American Express	11.6
Dell	-20.0
Dow-Jones Index	19.7
Nike	24.5*
Adidas	2.7*

<sup>\*</sup> Price change since July 2006

# **Value Investing Process**

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#### **VALUATION**

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- Earnings Power
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#### **REVIEW**

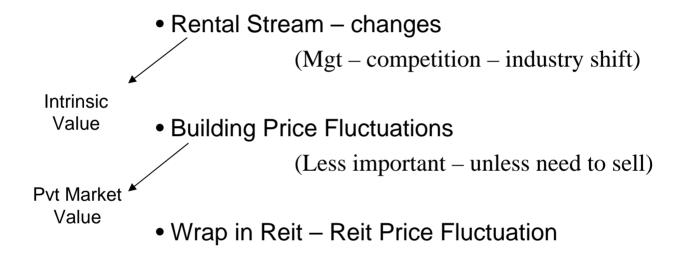
- Key Issues
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#### **RISK MANAGEMENT**

- Margin of Safety
- Some Diversification
- Patience Default Strategy

### **Elements of Risk**

# **Building**



## **Risk Management in the Value Process**

# "Risk" is not the same thing as "Uncertainty"

- Highly certain losses are surely an element of "Risk"
- Upside possibilities that are highly "Uncertain" do not necessarily constitute Risk.

# Sources of "Risk" are as Important as "Risks" themselves

- Unanticipated <u>Negative</u> development
- Miscalculations of <u>Positive</u> values.
   (Underestimation of negative values)

# Value Investing Risk "Miscalculation"

# <u>Diversification</u> may be Underestimated <u>Margin of Safety</u> will be Miscalculated

### **Protection Against Miscalculation**

- External references
  - Insiders
  - Search strategy
  - Other value Investors
- Internal References
  - Careful tracking
  - Success/Failure
- Pre Consideration of Default Strategy

# Relative VS. Absolute Risk The Default Strategy

Absolute Risk – Capital Preservation
 Minimize Deviation (Return – Return on P<sub>NVO</sub>)

P<sub>NVO</sub> is the Portfolio with "Best" Return with No Value Opportunities Available

= CASH?

Relative Risk – Index Performance
 Minimize Deviation (Return – Return on P<sub>Index</sub>)

# Risk Management in the Value Process

#### "Risks" are Situational-

- In some cases Asset Value Miscalculations Don't matter
- In other cases, Earnings Power miscalculations don't matter

Negative surprises can be "Minimized"

Situations:	AV	EPV	
<ul> <li>Asset-Based Purchase</li> </ul>		>	= P
• Franchise-Based Purchase		<	= P
Joint-Based purchase		_	<b>.</b> D

### **Asset Based Purchases**

# **Unanticipated Negative Development**

- Asset Impairments
- Management Depredations

Check -Situation Specific

**(A)** 

- Industry Deterioration
- Accounting Irregularity

(B) • Non-Performing Catalyst

Situation Specific

- (C) Economic Deterioration(Depression, Nuclear War)
- (A) & (B) Diversification and Margin of Safety
- (C) Margin of Safety

### **Franchise Purchases**

# **Negative Developments**

- Management Impairments SMALL
- Asset Impairment NONE
- Accounting Irregularity RARE
- Non-Catalyst UNNECESSARY
- Industry/Economic Impairment LIMITED
- Franchise Impairment CRITICAL

### **Sector Specific Event**

- Diversification
- Growth as a Margin of Safety VS.
   Industry/Economy Impairment

# **Joint Purchase Based**

- Company Impairments
- Industry Impairment

- DIVERSIFICATION

Economy Impairment – MARGIN OF SAFETY

## **Security Analysis**

What Do you Do When There are No Good Ideas?

How Much Do you Buy?

Know Nothing ⇒ Modern Portfolio Theory World

Define "DEFAULT – Risk Minimizing
Portfolio

Determining

- (1) Equity Manager Index Fund
- (2) Individual "Optimal" Index + St. Portfolio
- (3) Value Manager Statistical Value Index Fund