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Investor Mental Models

Long Equity Fund

2022

- Model models allow complex data to be quickly and accurately turned into actionable insights.
- They provide a thought process for filtering the signal from the noise and for separating out what's important from what's not important.
- Presented here are a range of 1-page mental models for deciphering a range of concepts encountered in the world of investing.

What influences share price?







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<u>Company A</u>		<u>Company B</u>		<u>Company C</u>	
Earnings growth:	6x	Earnings growth:	1x	Earnings growth:	2x
Valuation growth:	1x	Valuation growth:	6x	Valuation growth:	3x
Share price growth:	6x	Share price growth:	6x	Share price growth:	6x

This example demonstrates the important fact that any share price change can be understood by the change in earnings and the change in valuation:

Share Price Growth = Earnings Growth x Valuation (P/E) Growth

Four Essential Investing Ratios

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Company A and Company B both make **\$1bn** in earnings. Comparing a company's earnings to its invested capital, revenue, historic earnings and market capitalisation reveals four important investing ratios.

	Company A	Company B
Return on capital (Quality)	Earnings = \$1bn	Earnings = \$1bn
How efficient the company is at	Invested capital = \$4bn	Invested capital = \$20bn
investing its capital at high returns	ROC = \$1bn / \$4bn = <u>25%</u>	ROC = \$1bn / \$20bn = <u>5%</u>
Profit Margin (Quality)	Earnings = \$1bn	Earnings = \$1bn
How efficient the company is at	Revenue = \$2bn	Revenue = \$10bn
adding value to the supply chain	Margin = \$1bn / \$2bn = <u>50%</u>	Margin = \$1bn / \$10bn = <u>10%</u>
Earnings Growth Rate (Growth)	Earnings = \$1bn	Earnings = \$1bn
How efficient the company is at	Earnings 5 years ago = \$0.25bn	Earnings 5 years ago = \$0.5bn
growing its earnings over time	Growth rate = \$1bn / \$0.25bn = <u>4x</u>	Growth rate = \$1bn / \$0.5bn = <u>2x</u>
Earnings Yield (Valuation)	Earnings = \$1bn	Earnings = \$1bn
How attractively the market values	Market capitalisation = \$20bn	Market capitalisation = \$50bn
the company's earnings	Earnings Yield = \$1bn / \$20bn = <u>5%</u>	Earnings Yield = \$1bn / \$50bn = <u>2%</u>

Despite earning the same, Company A is a more efficient capital allocator (ROC), has more negotiating and pricing power (margins), has faster growth (growth rate) and is more attractively valued (earnings yield) than Company B.

Not all earnings are equal

Here is a reverse rank of the different types of earnings

- 5. Negative earnings
- 4. Low ROI earnings
- 3. Cyclical earnings

Expenses > *Revenue*

Use billions to make millions

Airlines, banks, oil, etc.

2. Leveraged earnings

Capital intensive, e.g. banks

1. High ROI, low cyclicality, unleveraged earnings

Value investments by comparing their FCF yields to the investable universe of companies with high ROCs, competitive advantages, low cyclicality and low debt.





In corporate finance there are three rules for maximising value:

- 1. Buy **high return** assets
- 2. Finance assets with **low cost** debt
- 3. Only return capital to investors if there are no suitable investments

These principles should guide both how managers run their businesses and how investors find and manage investments.

Maximise the highest possible return by investing in the highest returning assets.

Retain earnings to reinvest





= Long-term compounding of value

High ROC and long-term competitive advantages can only be created in specific sectors





Supply chain and investor relations



A company is best understood by its relationship with its investors and supply-chain (suppliers and customers).

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Businesses borrow money from investors, exchange it with their suppliers for goods and services, provide goods and services to their customers in exchange for money and return money to their investors.

The higher the return on capital (ROC) the more efficient the business's relationship is with its investors. A ROC of 20% means that for every \$100 of invested capital the business returns \$20.

The higher the gross margin the more efficient the business's relationship with its suppliers and customers. A gross margin of 60% means the business makes something for \$40 and sells it for \$100.

The Semiconductor Ecosystem



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