

Practical Corporate Financial Modeling

Overview of Corporate Finance

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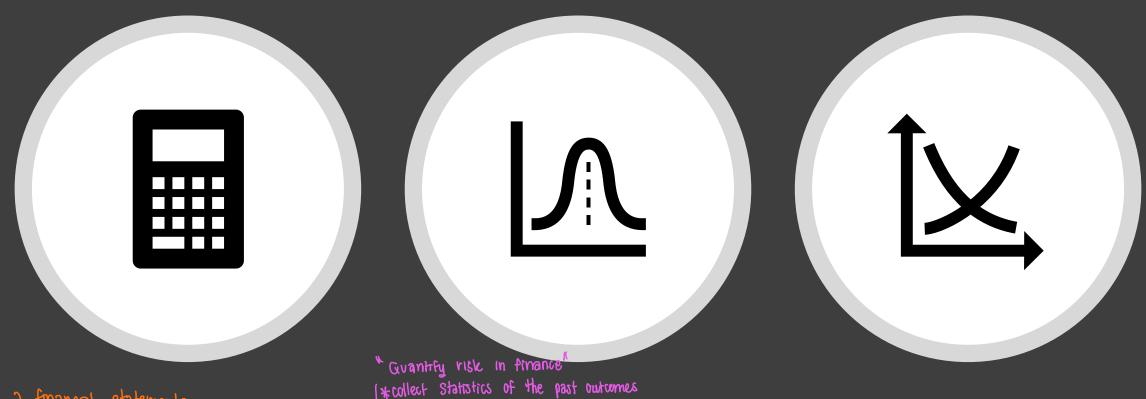
dr-kanis.com



FLAGSHIP FOR LIFE

Agenda

- The decisions of a financial manager
- Profit drivers, the ROIC framework, and EVA
- Cash flow-based methods of financial evaluation: NPV and IRR



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3 fmancral statements

- BS

- PL: Revenue < Price × Quantity > CF

- CF

Not profit
```

Finance is best understood as a combination of three disciplines.

data generating stock > follows normal distribution (,u, o')

to product the future outcome (we don't linew whether stock price will go up I down)

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profit -> stated by investment made -> efficiency activity generated -> margin

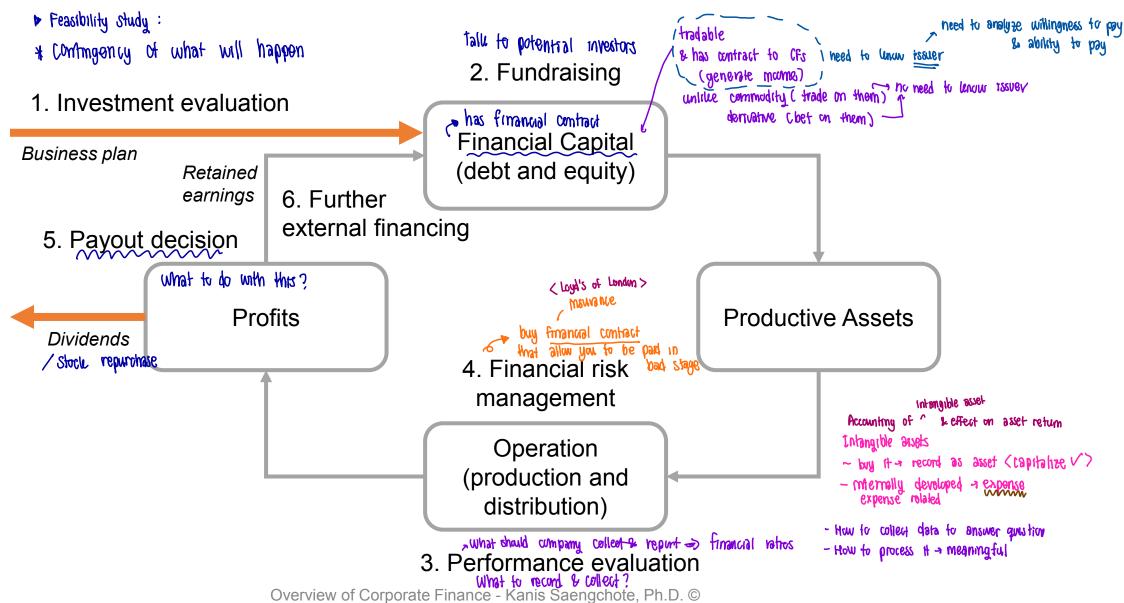
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Sompared to peers

Ristances of invt oppositions of the contraction of the contract
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Business cycle:



Esg asset allocation

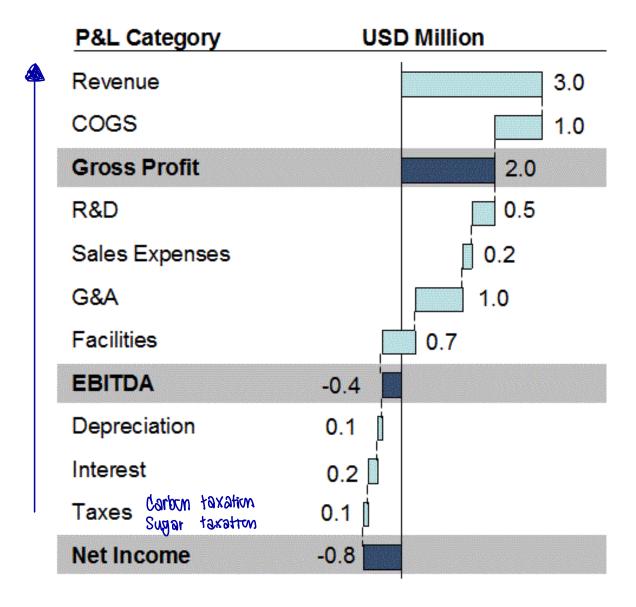
Imagine you're running a business. What would your objective be?

p If you're the only one shor a it's on to lose if you're met obligation

BUT, if there's a lot of shor a maximize other's wealth

external shor?



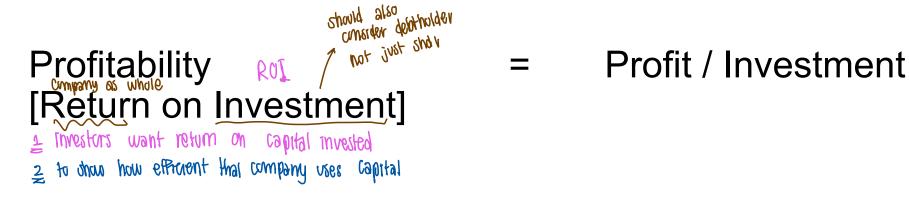




How should we measure profitability of a company?

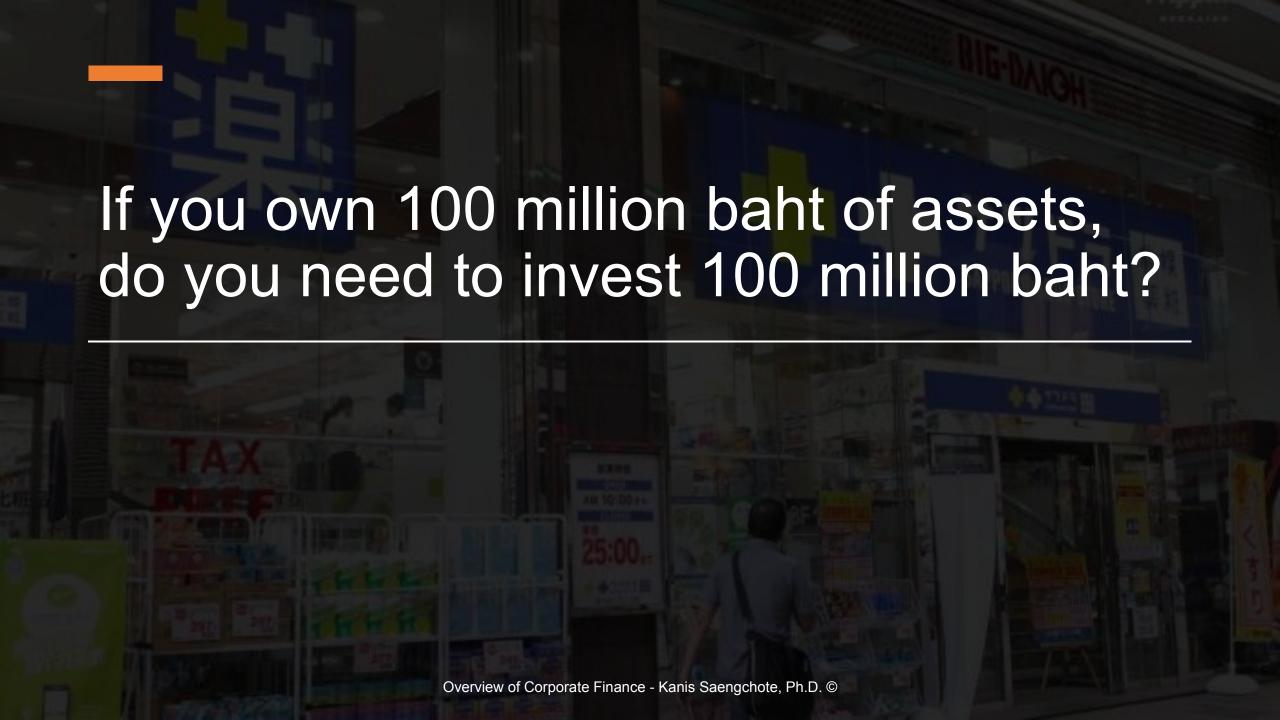


The typical way to evaluate profitability is relative to the investment made.



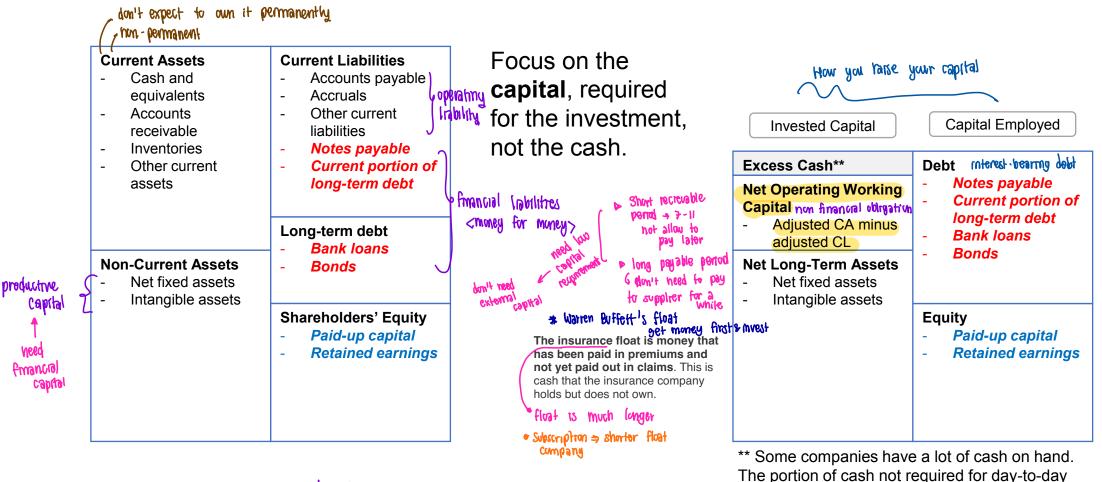


Discussion: How can Starbucks improve its profitability [ROI]?





Let's take a look from the 'profitability' view and analyze firms from the **economics lens** rather than the financial accounting lens.



operation is referred to as "excess cash".

* With Financial capital - allow us to transform morey to productive



The reorganized balance sheet helps us understand the role of the financial manager.

e.g. Ax the price of sugar (commodity with volatical price) D cost of capital - satisfy investors I different demand D Liquidity: • enough CF Risk Goral Hand 9226F Capital Invested management to meet liability **Employed** Capital Short-term investment Efficiency us. Crowdity **Net Operating Debt Working Capital** Short-term Working capital capital structure Long-term AR as investment management

Investment decision

Financial feasibility study

Net Operating
Working Capital

AR 88 investment
Investing your own resource
In customer and receive later

Net Long-Term Assets
Capital to be used in long time

Debt
- Short-term
- Long-term

Equity
- Long-term

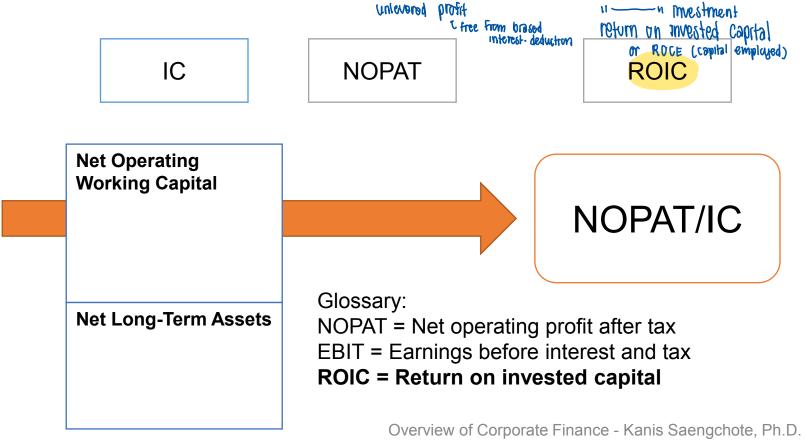
Financing decision



When evaluating business profitability, we do not want the financing decision to distort our metric. Consequently,

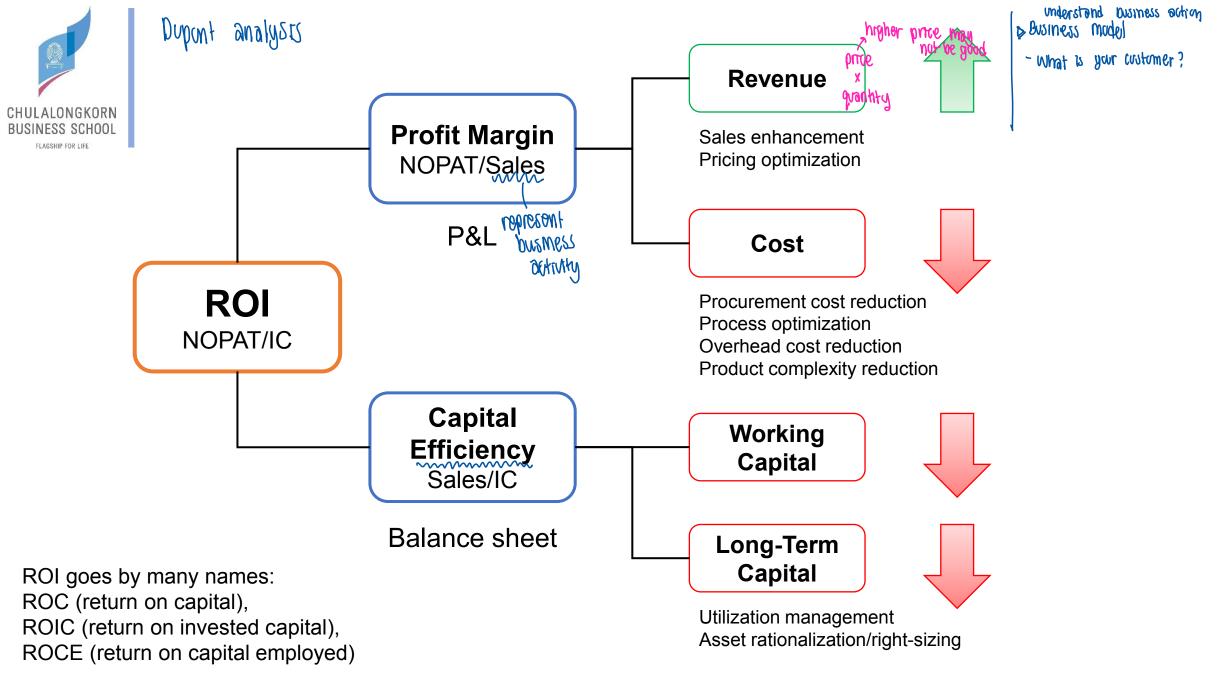
we should evaluate firms as if they had no debt.

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- **NOPAT** is the after-tax profit that the business generates from its invested capital.
- The profit is independent of how the business is financed.
- **ROIC** is sometimes referred to as ROC or ROCE.

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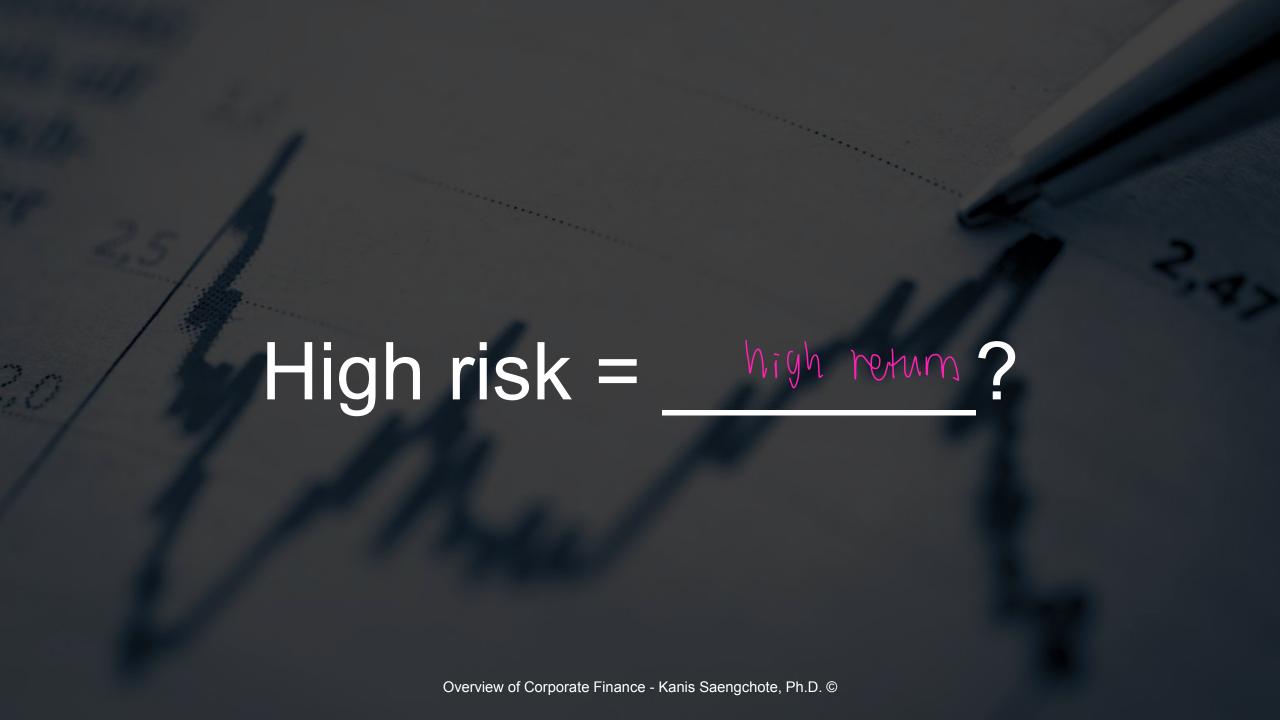




Economic profit is a measure of business success.

What we **expect to** receive vs What we're **supposed to** receive

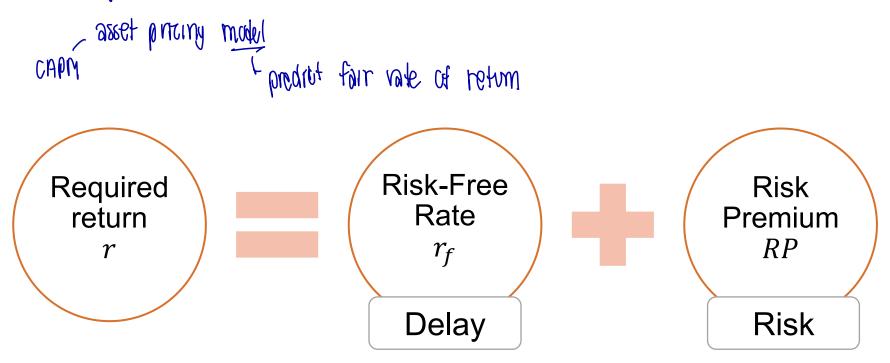
But how much are we supposed to receive?





We are risk-averse, so we want to be rewarded for investing in something risky.

low required return rate -> can bid higher -> win :





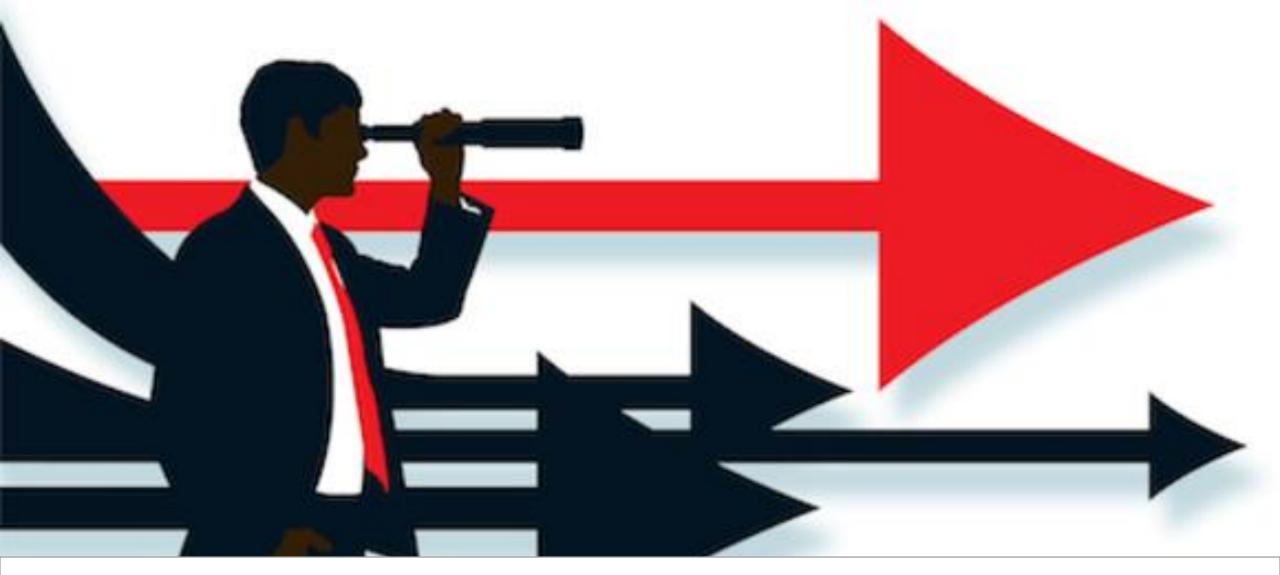
There are several synonyms for this kind CHULALONGKORN Of returns:

Required returns

• Cost of capital [WACC] from corpuste perspective

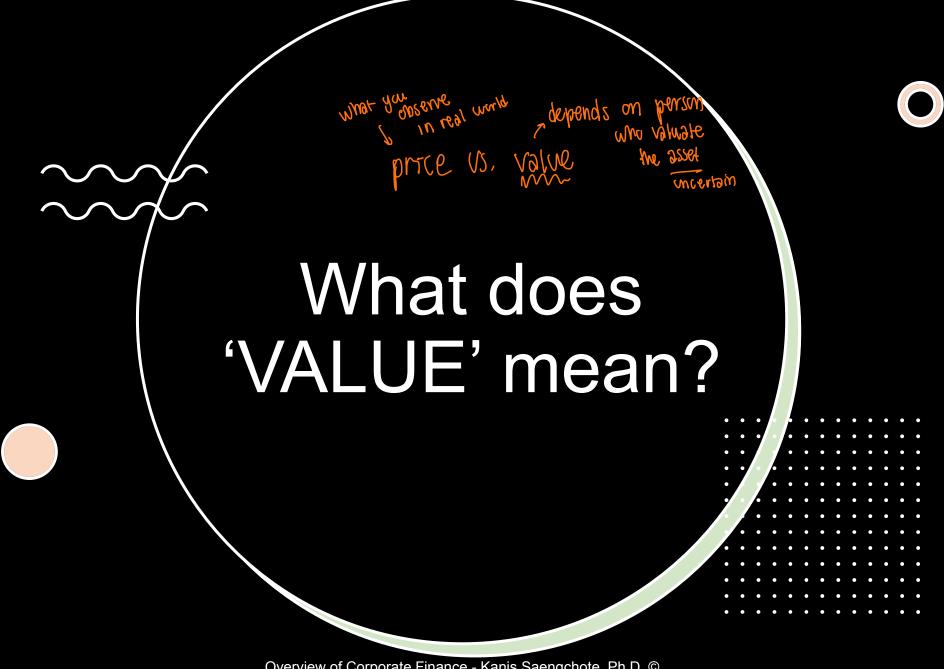
Discount rate

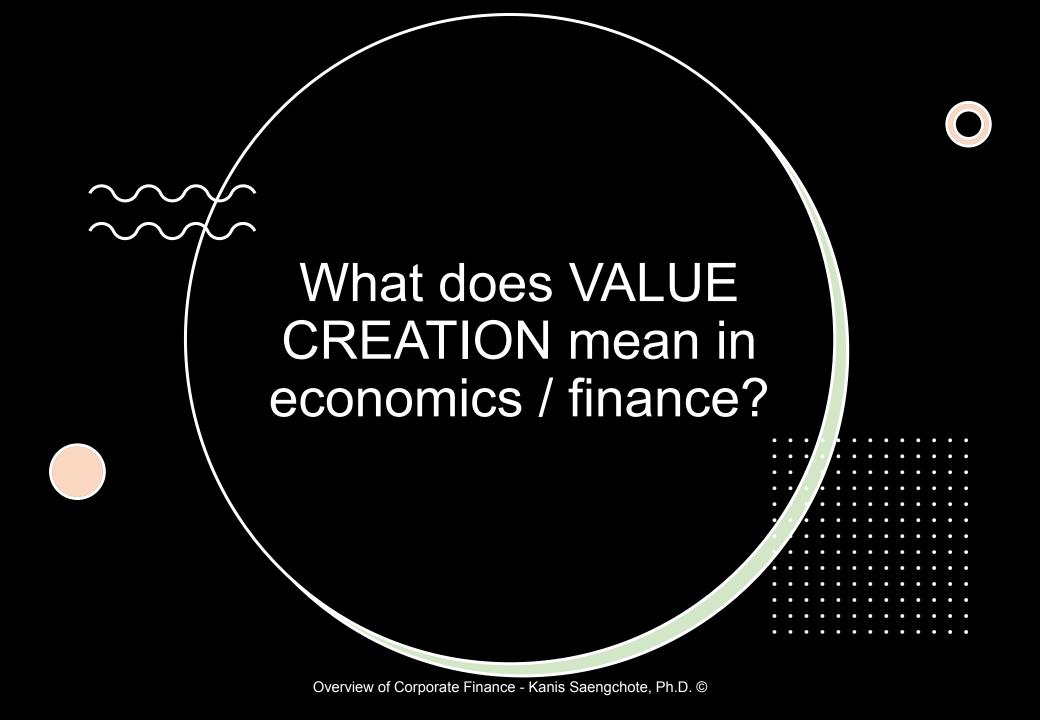
- minimum vote for new project Hurdle rate



In determining the attractiveness of an investment today, we also take into account its future potential. We want to invest in opportunities that are the most "valuable" to us. \rightarrow Importance of **time value of money**.

What does 'VALUE' mean?





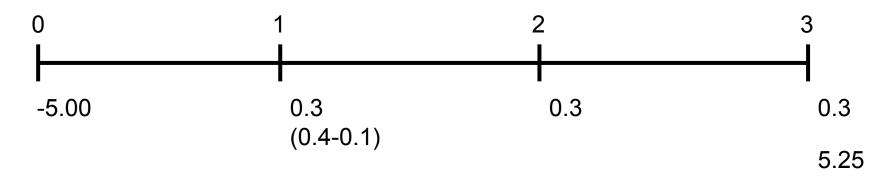


The cash flow-based methods of evaluation are NPV and IRR.

You want to invest in a condominium which is priced at **THB 5 million**. At the current gross rental yield of 8%, you believe your annual rental income will be 8% \times 5 = **THB 0.4 million**. The common area management fee and other expenses are estimated to be about **THB 0.1 million** per year.

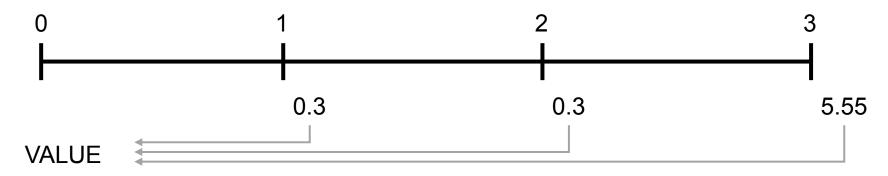
Suppose you expect to be able to sell the condo in 3 years time (net of all taxes and fees) at **THB 5.25 million** and your required rate of return is **6%**, will you buy the condominium?

Project free cash flow





NPV = Value – Price If NPV > 0, then this is a good deal.



 The project value is the sum of present value of the cash flow you expect to receive in the future (often called the discounted cash flow).

$$= 0.3/(1.06)^{1} + 0.3/(1.06)^{2} + 5.55/(1.06)^{3}$$

= 5.21

• The "price" of the project is 5. NPV = Value – Price = 5.21 – 5 = 0.21m



IRR = profit as % If IRR > r, then this is a good deal.

- NPV tells us if we're making a profit (in the "buying low" sense) beyond what we deserve go get (based on how much risk we're taking).
 However, this number isn't as intuitive compared to % return.
- The internal rate of return (IRR) measures how much % return we get (in terms of future cash flow) based on the price we pay (the initial investment).

$$5 = 0.3/(1+IRR)^{1} + 0.3/(1+IRR)^{2} + 5.55/(1+IRR)^{3}$$

• Here, IRR = 7.55% > 6%, so we're making a profit.



Throughout this class, we will use case studies to explore the key financial decisions made from the perspective of business value creation.

Risk management

Invested Capital

Net Long-Term Assets

Capital **Employed**

Some issues to think about

- Profit versus cash flow
- Valuation and value creation
- Discount rate estimation
- Theory versus practice

Working capital management

> Investment decision

Net Operating Working Capital

Debt

- Short-term
- Long-term

Equity

Long-term

Financing decision



Workshop: Financial [Spreadsheet] Modeling

Key issues to think about

- Purpose
- Structure
 - Flexibility and granularity
- Formatting
- Formulas

This website provides a very good guide.

https://www.wallstreetprep.com/knowledge/financial-modeling-best-practices-and-conventions/