

Student learning outcomes

- 5.1 Discuss the key components that should be included in an industry analysis model.
- 5.2 Illustrate the life cycle of a typical industry.
- 5.3 Analyse the effects of business cycles on industry classification (i.e., growth, defensive, cyclical).
- 5.4 Analyse the impact of external factors (e.g., technology, government, foreign influences, demography, and social changes) on industries.
- 5.5 Illustrate the inputs and methods used in preparing industry demand and supply analyses.
- 5.6 Explain factors that affect industry pricing practices.

rter (2000)

Student learning outcomes

- 5.7 Distinguish among the five competitive forces that drive industry profitability in the medium & long run.
- 5.8 Illustrate how the competitive forces drive industry profitability. Describe why industry growth rate, technology and innovation, government, and complementary products and services are fleeting factors rather than forces shaping industry structure.
- 5.9 Indicate why eliminating rivals is a risky strategy.
- 5.10 Show how positioning a company, exploiting industry change, and the ability to shape industry structure are creative strategies for achieving a competitive advantage.

nics & Finance based on Hooke (2010) & Porter (2008)..

References

- Hooke, J. (2010) Security Analysis On Wall Street: A Comprehensive Guide to Today's Valuation Methods. (2nd edition) John Wiley & Sons, Inc. Ch. 6.
- Porter, M.E. (2008) "The Five Competitive Forces that Shape Strategy." Harvard Business Review.



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Outcome 5.1

Industry analysis

- One of the most important components of the analysis of equity securities is a thorough analysis of the industry in which a firm operates
- This is but one step in the "top-down" approach, which starts with economics and capital market forecasts, moves to an industry analysis, and then looks at specific company information
- Equity analysts typically receive economic and capital market forecasts from others, and therefore their tasks begins with the industry analysis

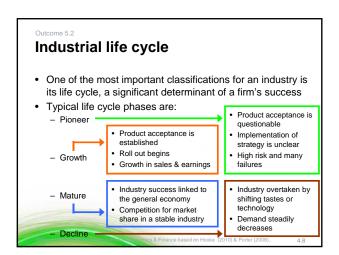
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Components of an industry analysis · A number of models Industry definition have been developed Industry performance which prescribe the Products and markets format and content of Competitive landscape the industry analysis Operating conditions E.g. IBISWorld (2010) Industry classification We will focus on the one External factors put forward by Hooke in Demand analysis the prescribed reading Supply analysis for this topic: Profitability Competition

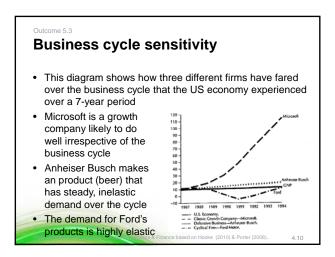


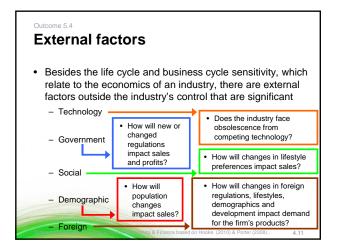
Industry classification

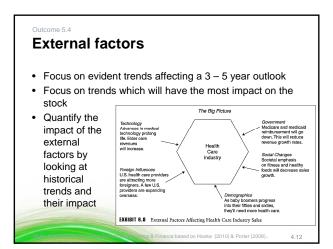
- There are several ways in which an industry can be classified in order to develop a view about the likely future prospects of a firm within that industry
 - Industry sector
 - Industrial life cycle
 - Business cycle sensitivity
- The broadest way to classify an industry is to determine the industry sector
- The broadest sectors in common use are the mining and the "industrial" sector (i.e. everything except mining)
- The industrial sector, in turn, is commonly divided into specific sectors such as consumer staples, consumer discretionary, health, energy, utilities and financial



Business cycle sensitivity · Another classification is sensitivity to the business cycle · Economies do not grow in straight line - they generally cycle through periods of recession, followed by a recovery Different industries react differently to this cycle, which is a determinant of how firms will succeed throughout the cycle Examples are: Above normal expansion - Growth in sales and profits independent of the Stable performance business cycle during both ups and Defensive downs of the business cycle Profitability tracks the business cycle, often in an exaggerated manner Cyclical







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Demand analysis

- The ultimate purpose of the analysis we have looked at so far is an assessment of future demand for the industry's products
- This can be done with top-down or bottom-up analysis
- · Components of a top-down analysis are:
 - Macroeconomics analysis
- Industry life cycle
- Business cycle sensitivity
- External factors
- Input/output analysis observing the flow of goods and services through the production process
 - If one industry is a major customer of another, inputs to one industry will partially drive demand for the supplier's products
 - Consumption of an industry's output will drive demand for complementary products

Finance based on Hooke (2010) & Porter (2008)..

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Outcome 5.5

Demand analysis

- Bottom-up analysis aims to identify sub-markets by defining purchasers and their motivations
 - Established industries
 - Long-time customers can be contacted to try to establish what drives demand for the industry's products
 - Growth industries
 - Consider new outlets for the industry's products
 - Untested industries
 - Determine whether industry fulfils a need that (1) exists, and (2) isn't being met by another industry
 - · Forecast new industry sales based on a similar industry
- Top-down and bottom-up analysis can be done separately and used to verify each other

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Outcome 5.5

Supply analysis

- Analysts spend most of their time forecasting demand, but supply can pose problems in many industries
 - Some industries are reliant on highly skilled workers, while others require major investments in fixed capital
 - It often requires a lead time of 3 to 5 years to create new capacity
- Supply is a function of unused capacity and the ability to add additional capacity

1996 Mexican cement market supply/demand forecast				
	1996	1997	1998	1999
1996 capacity	36.0	36.0	36.0	36.0
1997 additions, net		1.0	1.0	1.0
1998 additions, net			3.7	3.7
1999 additions, net				1.3
Available capacity	36.0	37.0	40.7	42.0
Expected demand	31.0	33.0	35.5	38.0
Capacity utilisation	86%	89%	87%	90.5%
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Outcome 5

Industry pricing

- The ultimate test of whether an industry is a viable investment opportunity is not sales, but profitability
- A firm's ability to implement a profitable pricing policy is driven by four main factors:
 - Product segmentation
 - Most industries segment their products in order to charge higher prices to some segments of the market
 - Industry concentration
 - High prices can be maintained in concentrated industries
 - Ease of industry entry
 - · Barriers to entry inhibit competition and help maintain profits
 - Price changes in key supplier inputs
 - Industries may or may not be able to pass on higher input prices

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Outcome 5.

Five competitive forces

- Porter (2008) identified five competitive forces that drive profitability in an industry:
 - Established rivals
 - Customers
 - Suppliers
 - New entrants
 - Substitutes
- All five of these forces must be analysed in order to respond strategically to competition and enhance profitability
- We will examine each of these forces in turn to see how they define the structure of the industry

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Outcome 5.8

Established rivals

- Profitability and pricing are driven by the intensity of existing competition and the basis on which it occurs
- · Competition will be more intense if:
 - Competitors are numerous and roughly equal in size and power
 - Without an industry leader, desirable practices for the industry as a whole go unenforced
 - Industry growth is slow
 - This precipitates fights for market share
 - Exit barriers are high
 - Firms earning low or negative returns may continue to compete
 - Rivals are highly committed (leading to more intense competition)
 - Firms cannot read each other's signals (due to lack of familiarity with each other, or dissimilar goals and objectives)

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Established rivals

- Competition is especially destructive to profitability if it gravitates solely to price competition, which effectively transfers profits from an industry to its customers
- · Price competition is most likely to occur if:
 - Products or services are nearly identical
 - There is no way to compete, other than on price
 - Fixed costs are high and marginal costs are low
 - Firms are tempted to cut costs in order maintain volume, so that high turnover contributes to recovery of fixed costs
 - Capacity must be expanded in large increments to be efficient
 - . This leads to long periods of overcapacity and price cutting
 - The product is perishable
 - It is tempting to cut costs to sell a product while it has value

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Outcome 5.8

Customers

- Buyers of an industry's products and services can drive down prices, and profitability, if they have bargaining power and are price sensitive
- They will tend to have bargaining power if:
 - There are few of them
 - Products are standardised
 - There are few switching costs
 - Backward integration is a threat
- They will tend to be more price sensitive if:
 - The products purchased are a significant fraction of cost structure
 - The buyer group is unprofitable or strapped for cash
 - The quality of the buyer's products are little affected by quality
 - The industry's products have little effect on the buyer's other costs

Outcome 5.8

Suppliers

- As with customers, suppliers who can control price can extract profitability from an industry they supply to
- · Suppliers will tend to have such power if:
 - The supplier group is more concentrated than the industry it supplies to
 - The supplier group does not depend heavily on any one industry
 - There are high switching costs to change suppliers
 - Suppliers offer products that are differentiated
 - There is no clear substitute for what the supplier offers
 - The supplier group can credibly threaten to integrate forward

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Outcome 5.8

New entrants

- The threat of entry of new participants can limit the profitability of an industry
- If an industry is highly profitable, new firms and firms diversifying from related industries will be tempted to enter the industry
- Firms in a profitable industry have an incentive to hold down prices or invest heavily to protect their position – both of which will retard profitability
- It is the threat of entry, rather than whether the entry actually occurs, that puts a brake on profitability
- The extent of the threat depends on barriers to entry and expected retaliation from existing players in the industry

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Outcome 5.

New entrants

- · Barriers to entry include:
 - Supply-side and demand-side economies of scale
 - New entrants must come in on a large scale in order to enjoy these economies and hence be competitive
 - Customer switching costs make it difficult for newcomers to attract business
 - Capital requirements can deter new entrants, especially if the costs are not recoverable (e.g. advertising)
 - Incumbency advantages independent of size
 - E.g. propriety technology, preferential access to raw materials
 - Unequal access to distribution channels
 - Distribution channels are costly to create and hard to bypass Restrictive government policy
 - Government regulations can limit or prevent new entry

Outcome 5.8

New entrants

- The likelihood and extent of retaliation can deter new entrants to an industry
- If retaliation is extensive, the additional cost to newcomers may exceed the cost of capital, and therefore act as an effective deterrent
- Retaliation is more likely to occur if:
 - This has occurred previously to new entrants
 - Incumbents have substantial resources to fight back
 - The industry has high fixed costs, tempting incumbents to drop prices in order to maintain market share
 - Industry growth is slow, so newcomers can only gain volume by taking market share from existing firms

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Outcome 5.8

Substitutes

- The threat of substitutes can put a ceiling on an industry's profitability, because if prices are too high, buyer's will be tempted to switch to the substitute
- Substitutes can be difficult to recognise, and can include:
 - Doing without the product
 - Buying a used product
 - Bringing the product "in-house" and supplying it yourself
- The threat of a substitute is high, and the cap on an industry's profitability will be tighter, if:
 - It offers an attractive price-performance trade-off to the industry's product
 - The buyer's costs of switching to the substitute is low

Finance based on Hooke (2010) & Porter (2008)..

Outcome 5.3

Factors rather than forces

- There are a number of other factors visible attributes of an industry – that can affect profitability in the short run but are not characteristic of industry structure in the long run
- These include:
 - Industry growth rate
 - High growth industries may seem attractive, but will attract new entrants and may give buyers and suppliers bargaining power
 - Technology and innovation not a guarantee of profitability
 - Government
 - Government involvement is not inherently bad or good, but must be analysed in the context of the 5 competitive forces
 - Complementary products and services
 - Existence of complements is also not inherently good or bad

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Outcome 5.9

Elimination of rivals

- One strategy to decrease competition is to eliminate rivals, through mergers and acquisitions
- · However this is risky strategy
 - The short-term profit windfall is likely to attract new entrants into the industry
 - There may be a backlash from both customers and suppliers, if they see the reduction in competition as an attempt shift profitability from them to the industry that has now become less competitive

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Strategies for competitive advantage

- Every company should know the average level of profitability for its industry
- The five competitive forces indicate reasons why it has this level of long-term profitability
- The next step is to implement a strategy to enhance competitive advantage, based on industry structure
- Strategic actions should include some or all of the following:
 - Positioning the company to better cope with competitive forces
 - Anticipating and exploiting shifts in the forces
 - Shaping the balance of forces to create a new industry structure that is more favourable to the company

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Outcome 5.10

Positioning the company

- It is important to build defences against the competitive forces or find a position in the industry where the forces are at their weakest
- An examination of each of the competitive forces can guide the company toward strategic actions, such as:
 - Differentiating the product to reduce competition from existing rivals
 - Actions to reduce the bargaining power of customers and suppliers, such as targeting a particular segment of the market
 - Investment to make new entry into the industry less attractive, or actions to increase the threat of retaliation to deter entry
 - Differentiating the product, or changing the business structure to increase switching costs, to reduce the effect of substitutes on profitability

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Outcome 5.10

Exploiting industry change

 When industry structure is changing, an alert company with a good understanding of the industry can spot those changes and take advantage of new opportunities for profit

Shaping industry structure

- Actions can be taken to change the long-term structure of the industry, with the objective being to:
 - Redivide profitability so that more is shared by existing participants and less by buyers and suppliers
 - Increasing the profitability pool

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