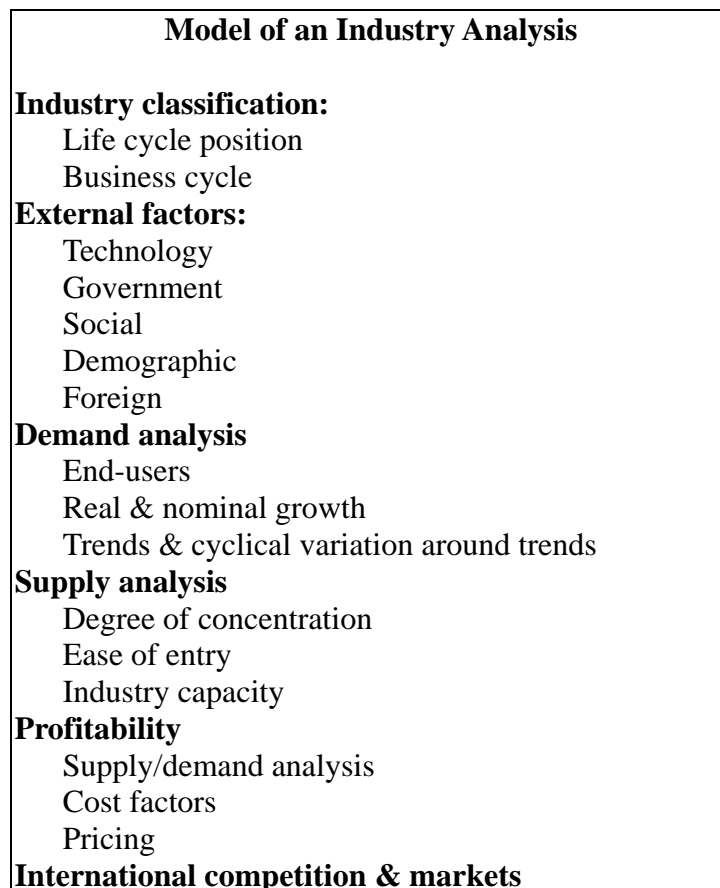


Industry Analysis

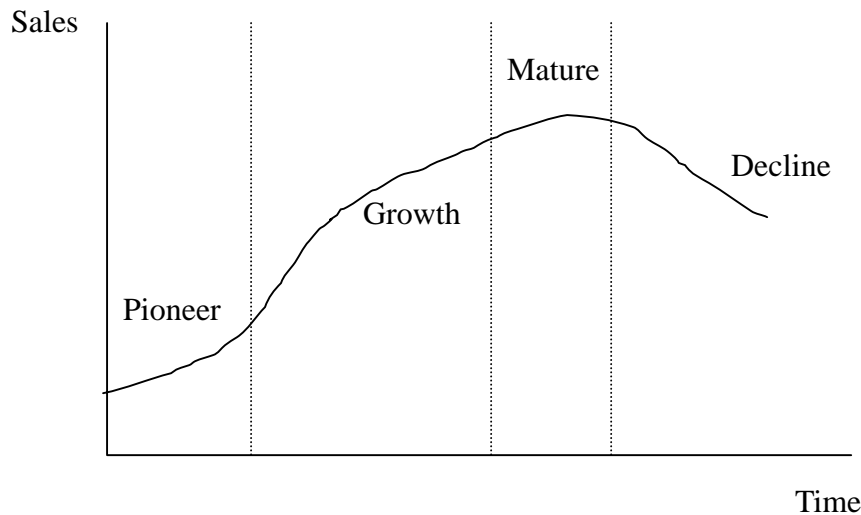
(A) Introduction

- In completing a valuation, an analyst usually starts the process with an assessment of the attractiveness of the industries in which a firm competes
 - Economic forecast
 - Size & growth of the industry
 - Supply vs. demand
 - Recent developments
 - Qualitative factors
- Top-down industry analysis
 - Macroeconomic forecasts → industry overview → individual firms
 - requires consideration of six factors: industry classification, external factors, demand analysis, supply analysis, profitability analysis & international competition



(B) Industry Classification

- Although industry classification provides a convenient point of reference, not all firms in the industry are the same and classifications can change over time
- **Industry life cycle**



	Pioneer Stage	Growth Stage	Mature Stage	Decline Stage
Acceptance of product or service	Unproven	Established	Established	Established
Competitive strategy	Unclear	Not determined	More important	Important
Growth	Weak	Accelerating	Average; above-average growth can only be attained by <i>gaining market share</i>	Falling demand
Profitability	Negative	Above average	Average	Below average
Risk	Very high	Low	Medium	High
Competition	Very little	Little	Intense	Lessening

➤ **Business Cycle Reaction Approach**

- **Growth Industries:** above-normal expansion in sales & profits occurs independent of the business cycle
 - ◆ e.g. computer software and hi-tech companies

- **Defensive Industries:** stable performance during both economic expansion & contraction
 - ◆ e.g. cigarette & food suppliers, beverage and utility companies
- **Cyclical Industries:** profitability tracks the business cycle, often in an exaggerated manner
 - ◆ e.g. auto manufacturers, heavy equipment producers & brokerage firms

(C) External Factors

- Every industry is subject to a variety of outside forces
 - **Technology:**
 - ◆ Pioneer phase: Will the market accept the innovation?
 - ◆ Established industries: Does the industry face obsolescence from competing technologies?
 - ◇ Copying or acquiring the competition to survive?
 - **Government:**
 - ◆ Regulations, taxes & subsidies
 - ◇ e.g. litigation against tobacco companies, environmental mandates & export subsidies
 - **Social Changes:**
 - ◆ **Lifestyle changes** generally occur over a long-term horizon and are easier to incorporate into analysis
 - ◇ e.g. health consciousness
 - ➔ demand for natural foods & nutritional products
 - ➔ demand for liquor
 - two-income families
 - ➔ demand for convenience food & child day care
 - ◆ **Fashion changes** tend to be short-term in nature & are relatively unpredictable
 - **Demography:** population's important statistics
 - ◆ **Broad shifts in population distribution, age & income**
 - ◇ Occur over a very long time period & are easy to identify
 - ◇ Harder to quantify trends & determine their influence on a particular industry
 - e.g. aging of population
 - ➔ demand for health care & financial services
 - **Foreign Influences**
 - ◆ **Globalization** of trade has a major impact on many industries & tends to disrupt patterns of demand & supply

- ✧ Foreign competitors, e.g. Japanese cars
 - ✧ Export demand, e.g. MacDonald
 - ✧ Imported inputs, e.g. oil
- The analyst should concentrate on how each factors impacts an industry over a 3-to 5-year horizon
 - When possible, effects should be presented in a *quantitative* form

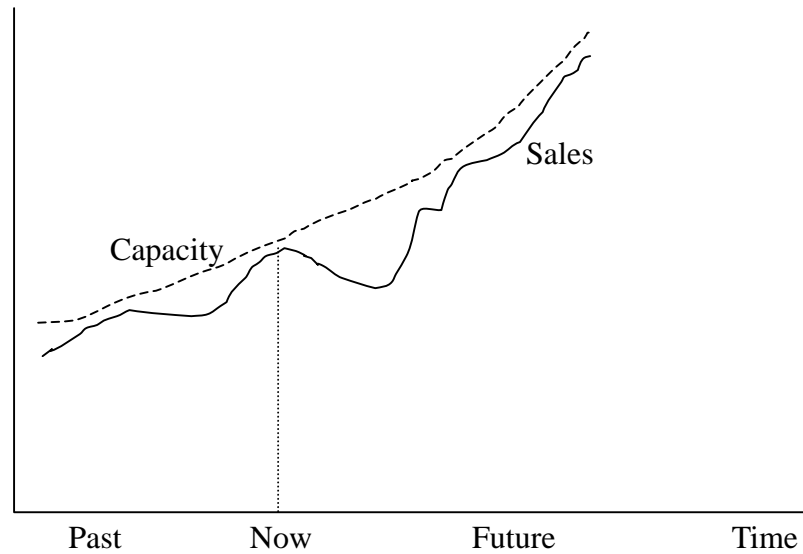
(D) Demand Analysis

- Macroeconomic forecast → industry classification (life cycle, business cycle) → external factor review → assess future *demand for the industry's output*
 - **Top-down economic analysis**
 - ◆ Macroeconomic factors (e.g., GDP growth) → industry's revenue
 - **Industry life cycle**
 - ◆ Industry classification: e.g. increase the base revenue growth estimate for growth industries
 - **External factors**
 - ◆ Governmental action regarding the industry
 - ◆ Foreign competitor entering the industry
- Two additional sources of info may also be useful in forecasting demand
 - **Customer analysis**
 - ◆ e.g. market segment (such as residential, commercial, industrial) analysis
 - **Industry's inputs & outputs**
 - ◆ Chain of industries: e.g. semiconductor → computer

(E) Supply Analysis

- It is easier to forecast supply if there are only a few competitors in the industry, all products are manufactured at several facilities, & imports are economically unfeasible or constrained by trade barriers
- In the long term, supply = demand
- In the short term, demand > supply
 - lead time to add new capacity or natural disaster → shortage
 - potential supply of output ↔ projected demand for the industry's outputs
 - ◆ capacity utilization data

Industry Capacity vs. Unit Sales



(F) Profitability & Pricing Practices

- Interaction of demand and supply indicates future pricing trends. Additional factors contribute to a firm's profitability & pricing decisions:
 - Product segmentation
 - ◆ Branded vs. generic products → price differentiation
 - Degree of industry concentration
 - ◆ concentration → probability of price competition
 - Ease of industry entry
 - ◆ entry barriers → price premium
 - Price changes in key supply inputs
 - ◆ e.g. oil price → profitability of chemical industry

(G) International Competition

- Changes in economic activities across borders
 - For example, massive sales of oil by Russian firms that are not bound by OPEC agreement led to over-supply of oil in the first half of 2002, which decreased the costs of many industries in developed nations
- Foreign exchange rates
 - Examples of how an appreciation in the domestic currency may affect a given industry:
 - ◆ If the industry exports some or all of its production, an appreciating currency will be bad news because it will become less competitive in overseas markets

- ◆ If the industry imports many of its production inputs & sells the majority of its product domestically, then an appreciating domestic currency will be beneficial because it will reduce production costs
- ◆ If the industry competes with foreign imports, those imports will become relatively less expensive, thereby hurting the domestic industry's competitiveness