# Using Information system to achieve competitive advantage

Lecture 3

## The strategic role of information systems

The strategic role of information systems involves using information technology to develop products, services, and capabilities that give a company strategic advantages over the competitive forces it faces in the global marketplace.

Strategic information systems can be any kind of information system (TPS, MIS, DSS, etc..) that helps an organization gain a competitive advantage, reduce a competitive disadvantage, or meet other strategic enterprise objectives.

## :Competitive advantage Concepts

- Competitive advantage refers to the use of information to gain marketplace impact.
- **Porter** argues that firms achieve competitive advantage by providing one of the following:
  - Products and services at a lower price.
  - Higher quality products and services.
  - Meeting the special needs of certain market segments.
- An important point to recognize is that the firm's managers use both **conceptual** and **physical** resources to meet the firm's strategic objectives.

#### Porter's Model for Competitive Advantage

Conceptual frameworks for understanding and applying competitive strategies have been developed by *Michael Porter* and others:

- 1. Competitive forces model
- 2. Value chain model

## Porter's Competitive Force Model

• A firm faces a number of external threats and opportunities:

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The threat of new entrants into its market (1)
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.The pressure from substitute products or services (2)

The bargaining power of customers (3)

The bargaining power of suppliers (4)

.Rivalry of competitors within its industry (5)

• Competitive advantage can be achieved to change the balance of power between a firm and other competitors.

Threat of new entrants

Bargaining power of suppliers

Competitive rivalery within the industry

Bargaining power of customers

Threat of substitutes

# Competitive Strategies

- **Developing unique business relationships:** This effectively locks in customers or suppliers by creating "switching costs" that make it expensive or inconvenient for them to switch to another firm. Thus, competitors are also locked out by such strategies.
- Barriers to entry, businesses may try to develop <u>legal</u>, <u>financial</u>, <u>or technological</u> requirements that create "barriers to entry" that <u>discourage</u> firms from **entering an industry**, or make substitution unattractive or uneconomical.
- Cost leadership strategy. becoming a low-cost producer of products and services in the industry.

#### Competitive Strategies

- **Differentiation strategy.** Developing ways to Differentiate a firm's products and services from its competitors' or reduce Differentiation advantages of competitors.
- Innovation strategy. finding new ways of doing business. This may involve the development of unique products and services, or entry into unique markets or market niches.
- Growth strategies. Significantly expanding a company's capacity to produce goods and services, expanding into global markets.
- Alliance strategies. establishing new business linkages and alliances with customers, suppliers, competitors, consultants, and other companies.

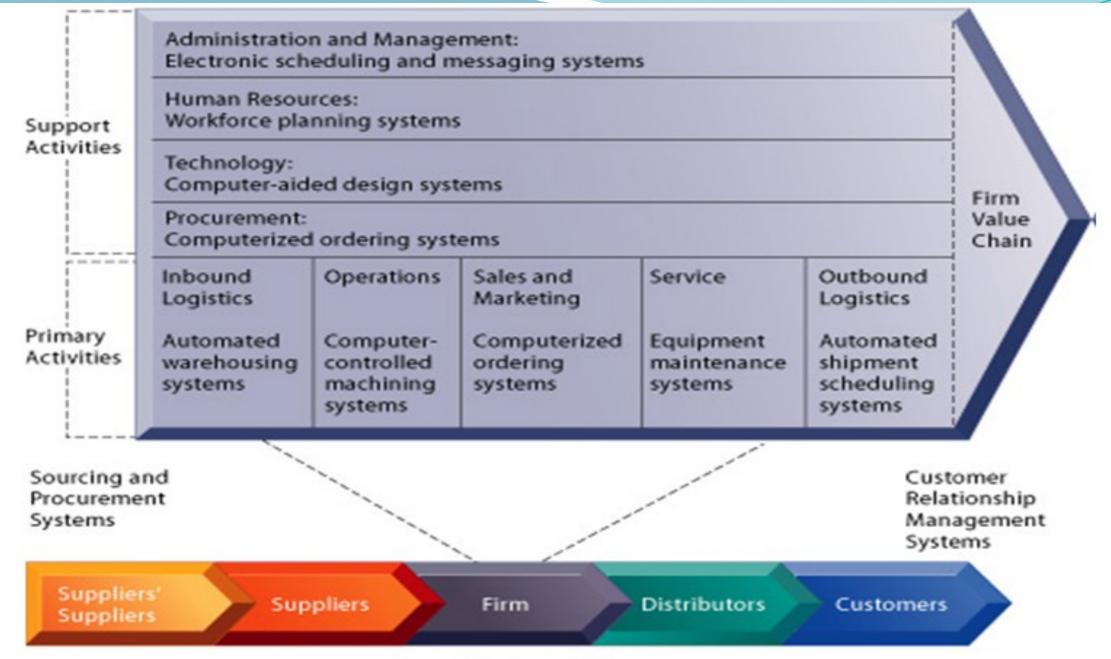
#### :Porter's Value chain Model

• The value chain model highlights specific activities in the business where competitive strategies can best be applied and where information systems are most likely to have a strategic impact.

• The value chain model identifies specific, critical leverage points where **a firm can use information technology** most effectively to enhance its competitive position.

#### Value chain Model Activities

- <u>Primary activities</u> are related to the <u>production and distribution</u> of the firm's products and services that create value for the customer. Primary activities include inbound logistics, operations, outbound logistics, sales and marketing, and service.
- <u>Support activities</u> make the delivery of the primary activities possible and consist of **organization infrastructure** (administration and management), **human resources**, **technology** (improving products and the production process), and **procurement** (purchasing input).



Industry Value Chain