Management Information Systems

Information Systems, Organizations, and Strategy

Lecturer:

Richard Boateng, PhD.

- Lecturer in Information Systems, University of Ghana Business School
- Executive Director, PearlRichards Foundation, Ghana

Email:

richard@pearlrichards.org



Chapters 3 (Laudon and Laudon, 2010)

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LEARNING OBJECTIVES

This session seeks to discuss how organizations use information systems to support strategy and achieve competitive advantage. Learning objectives include:

- Identify and describe important features of organizations that managers need to know about in order to build and use information systems successfully.
- Demonstrate how Porter's competitive forces model helps companies develop competitive strategies using information systems.
- Explain how the value chain and value web models help businesses identify opportunities for strategic information system applications

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Business Model, Strategy and IS



-Business process

- business model
- business strategy

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Business Process

Business process defines how work is to be done (organized, coordinated, and focused) to produce a particular product or service. It is a workflow of material, information and

knowledge.

Horizontal view of the business



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What is **business model?**

Researchers approach this concept in *different* ways

- "Most often a business model refers to a loose conception of how a company does business and generates revenue" (Porter, 2001: 73)
- Magretta (2002): it should answer: Who is customer? What does the customer value? How do we make money? What is the economic logic that explains how we deliver value to customers at an appropriate cost?

Business models are about value creation.Normally people emphasize different aspects of it!

Mitchell, D. and C. Coles (2003). "The ultimate competitive advantage of continuing business model innovation." *Journal of Business Strategy*. 24(5), 15-21.
Porter, M. E. (2001). "Strategy and the Internet." *Harvard Business Review*. March, 62-78

Information Systems, Organizations, and Strategy Chapters 3 (Laudon and Laudon, 2010) Key Points of Definition

Business Model is a *comprehensive* concept

• Afuah and Tucci (2001): a business model is *"the method by which a firm builds and uses its resources to offer customers better value than its competitors and to make money doing so"*

Key points:

a model or framework; value-focused; profit-oriented; resource-based

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Business Model And Strategy

- A business model defines what an organization is all about, what it does, and how it makes money.
- Strategy articulates how it will achieve goals and targets.
- A business model must be complemented by strategy that takes into account competition, industry forces and the like.

These two concepts seemingly overlap but in fact differ

- 1. Business model emphasizes the target and the logic behind
- 2. Strategy stresses action



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Examining Business Competitiveness By PORTER'S COMPETITIVE FORCES MODEL

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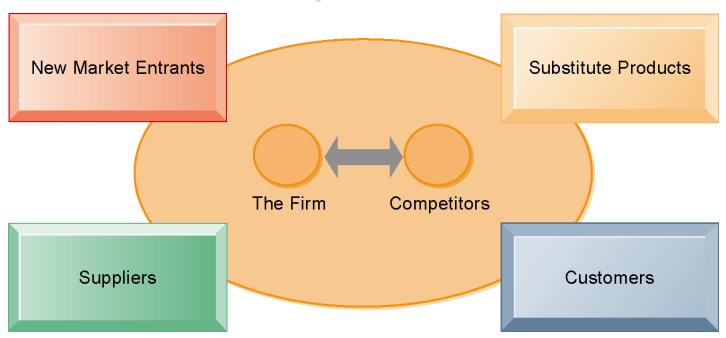
Using Information Systems to Achieve Competitive Advantage

- Why do some firms become leaders within their industry?
- Michael Porter's competitive forces model
 - Provides general view of firm, its competitors, and environment
 - Five competitive forces shape fate of firm
 - Traditional competitors
 - New market entrants
 - Substitute products and services
 - Customers
 - Suppliers

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Using Information Systems to Achieve Competitive Advantage

Porter's Competitive Forces Model



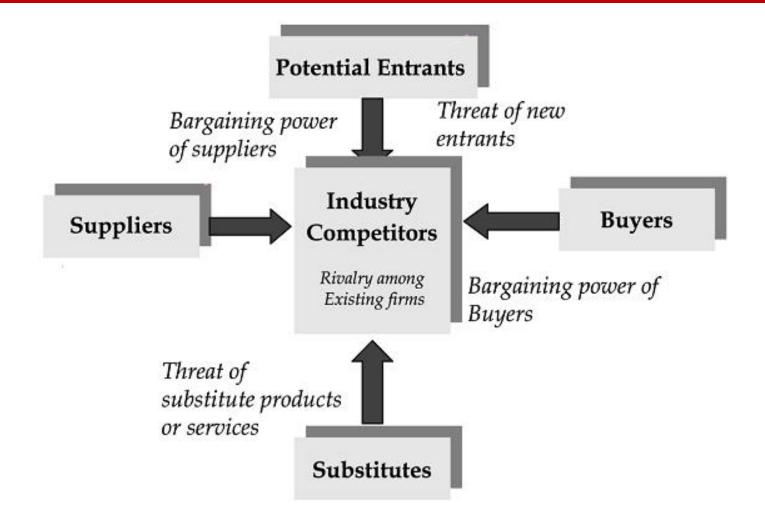
In Porter's competitive forces model, the strategic position of the firm and its strategies are determined not only by competition with its traditional direct competitors but also by four forces in the industry's environment: new market entrants, substitute products, customers, and suppliers.

Figure 3-10

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Information Systems and Business Strategy



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Using Information Systems to Achieve Competitive Advantage

Traditional competitors

 All firms share market space with competitors who are continuously devising new products, services, efficiencies, switching costs

New market entrants

- Some industries have high barriers to entry, e.g. mobile network operators in telecom industry
- New companies have new equipment, younger workers, but little brand recognition

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Beware of fake herbal drinks – ADJEI





 Substitute products and services

> Substitutes customers might use if your prices become too high, e.g. KASAPREKO

Nigerian consumers have been warned to be mindful what they ingest so as to avoid the risk of taking in fake herbal products that could be harmful to their health.



Dr. Kwabena Adjei

Dr. Kwabena Adjei, who is Chairman and President of Kasapreko – a Ghana based manufacturers of alcoholic and non-alcoholic drinks, noted during a media chat organised by Courier Master International, that the spate of ill health arising from ingestion of spurious health preparations being sold on the open market.

Adjei, who was in Nigeria for the first time warned in Lagos that it was necessary to get the right herbs in order to protect the body. "I heard that here the problem of imitation and faking is high just as it is in Ghana where people who drink some imitated products, got crippled, one went blind while others died."

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Customers

Can customers easily switch to competitor's products? Can they ٠ force businesses to compete on price alone in transparent marketplace?

etailer	Retailer message		Price
electrocentre	amsung UE55E S8000 55" Series 8 SMART Full HD 3D LED TV st 1979. Huge Range of products at affordable prices with a rapid delivery. Best ervice. Full UK warranty.	+	£ 1,829.00 Delivery : £ 0.00
			£ 1,829.00
1staudiovisual Info on 1st Audio Visual	AMSUNG SERIES 8 UE55E S8000 FULL HD 55INCH LED 3D TV nline prices with high street care. free and next day delivery services 0% finance plus 14 day peace of mind money back guarantee.	+	£ 1,990.00 Delivery : £ 0.00
			£ 1,990.00

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- Suppliers
 - Market power of suppliers when firm cannot raise prices as fast as suppliers

Industries facing powerful suppliers:

The PC making industry faces the almost monopolistic power of operating system supplier. Microsoft has abused its power a number of times.



Industries facing weak suppliers:

Food processors can buy agricultural produce from many, weak small and medium farmers.

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Suppliers

 Market power of suppliers when firm cannot raise prices as fast as suppliers

From the article titled Microsoft under fire on two fronts in Europe:

Microsoft is to be forced to fight its regulatory battles in Europe on two fronts after a powerful coalition of technology companies disclosed yesterday that it had lodged a fresh complaint against the software group with the European commission.

The move, which centres on the firmis XP version of its Windows operating system, comes at a sensitive time for Microsoft.

A separate investigation by the commission into the firmis alleged abuse of its dominant position involving an older version of Windows is expected to be completed in the first half of this year.



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Suppliers

 Market power of suppliers when firm cannot raise prices as fast as suppliers

In the car industry, suppliers refers to all the suppliers of parts, tires, components, electronics, and even the assembly line workers (auto unions!). Auto unions are tremendously powerful in USA.



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Rivalry between Competitors

Jury Awards \$1 Billion to Apple in Samsung Patent Case

After just three days of deliberation, the jury in the Apple v. Samsung patent-infringement has handed Apple a big win, finding Samsung guilty of infringing on a number of Apple patents, and recommending that Apple be awarded \$1.05 billion in damages.





The jury found that the majority of Samsung smartphones and tablets violated patents held by Apple. It included features such as one that allows a user to tap their screen to zoom in and out of an image, and a scrolling "bounce back" feature.

Apple's competitors have already begun to change their new products to protect themselves. By JOANNA STERN (@joannastern)

Aug. 24, 2012

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Using Information Systems to Achieve Competitive Advantage

- Four generic strategies for dealing with competitive forces, enabled by using IT
 - Low-cost leadership
 - Product differentiation
 - Focus on market niche
 - Strengthen customer and supplier intimacy

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Using Information Systems to Achieve Competitive Advantage

Low-cost leadership

- produce products and services at a lower price than competitors while enhancing quality and level of service
- Examples: Wal-Mart, Dell

Product differentiation



- Enable new products or services, greatly change customer convenience and experience
- Examples: Google, Land's End, Apple iPhone

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Using Information Systems to Achieve Competitive Advantage

Focus on market niche

- Use information systems to enable a focused strategy on a single market niche; specialize
- Example: Hilton Hotels, Funerals in Ghana

• Strengthen customer and supplier intimacy

- Use information systems to develop strong ties and loyalty with customers and suppliers; increase switching costs
- Example: Amazon, Apple

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Information Systems and Business Strategy

Impact of Internet on Competitive Forces

- 1. Reduces barriers to entry
- 2. Enables new substitute products and services
- 3. Shifts bargaining power to customer
- 4. Raises firm's bargaining power over suppliers
- 5. Suppliers benefit from reduced barriers to entry and from elimination of intermediaries
- 6. Widens geographic market, increases number of competitors, reduces differentiation among competitors

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Examining Business Competitiveness By VALUE CHAIN MODEL

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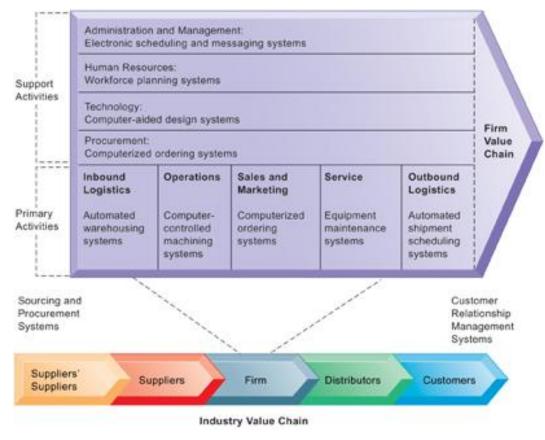
Business value chain model

- Views firm as series of activities that add value to products or services
- Highlights activities where competitive strategies can best be applied
 - Primary activities vs. support activities
- At each stage, determine how information systems can improve operational efficiency and improve customer and supplier intimacy

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Using Information Systems to Achieve Competitive Advantage

The Value Chain Model

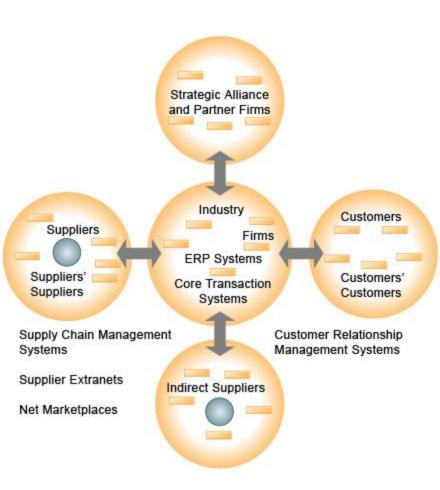


This figure provides examples of systems for both primary and support activities of a firm and of its value partners that can add a margin of value to a firm's products or services.

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Using Information Systems to Achieve Competitive Advantage

- Information Systems creates a Value web:
 - Collection of independent firms using highly synchronized IT to coordinate value chains to produce product or service collectively
 - More customer driven, less linear operation than traditional value chain



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Businesses Based on Networks

- Business models based on a network may help firms strategically by taking advantage of **network** economics.
- In network economics, the marginal costs of adding another participant or creating another product are negligible, whereas the marginal gain is much larger.
- For example, the more people offering products on eBay, the more valuable the eBay site is to everyone because more products are listed, and more competition among suppliers lowers prices.





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Insights > VIVA Africa Multimedia > Overview



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Using Systems for Competitive Advantage: Management Issues

Sustaining competitive advantage

 Because competitors can retaliate and copy strategic systems, competitive advantage is not always sustainable; information systems may become tools for survival

• Performing strategic systems analysis

- What is structure of industry?
- What are value chains for this firm?

Managing strategic transitions

 Adopting strategic systems requires changes in business goals, relationships with customers and suppliers, and business processes

Information Technology Investment

Considering the context of a developing country like Ghana, is the internet a strategic choice for every firm or otherwise, should every firm do business online?



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