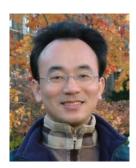
Case Study for Information Management 資訊管理個案

Telecommunications, the Internet, and Wireless Technology: Google, Apple, and Microsoft (Chap. 7)

1031CSIM4C07 TLMXB4C (M1824) Tue 2, 3, 4 (9:10-12:00) B425



Min-Yuh Day

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<u>淡江大學 資訊管理學系</u>

http://mail.tku.edu.tw/myday/ 2014-10-28

課程大綱 (Syllabus)

- 週次(Week) 日期(Date) 內容(Subject/Topics)
- 1 103/09/16 Introduction to Case Study for Information Management
- 2 103/09/23 Information Systems in Global Business: UPS (Chap. 1)
- 3 103/09/30 Global E-Business and Collaboration: NTUC Income (Chap. 2)
- 4 103/10/07 Information Systems, Organization, and Strategy: iPad and Apple (Chap. 3)
- 5 103/10/14 IT Infrastructure and Emerging Technologies: Salesforce.com (Chap. 5)
- 6 103/10/21 Foundations of Business Intelligence: Lego (Chap. 6)

課程大綱 (Syllabus)

週次(Week) 日期(Date) 內容(Subject/Topics)

- 7 103/10/28 Telecommunications, the Internet, and Wireless Technology: Google, Apple, and Microsoft (Chap. 7)
- 8 103/11/04 Securing Information System: Facebook (Chap. 8)
- 9 103/11/11 Midterm Report (期中報告)
- 10 103/11/18 期中考試週
- 11 103/11/25 Enterprise Application: Border States Industries Inc. (BSE) (Chap. 9)
- 12 103/12/02 E-commerce: Amazon vs. Walmart (Chap. 10)

課程大綱 (Syllabus)

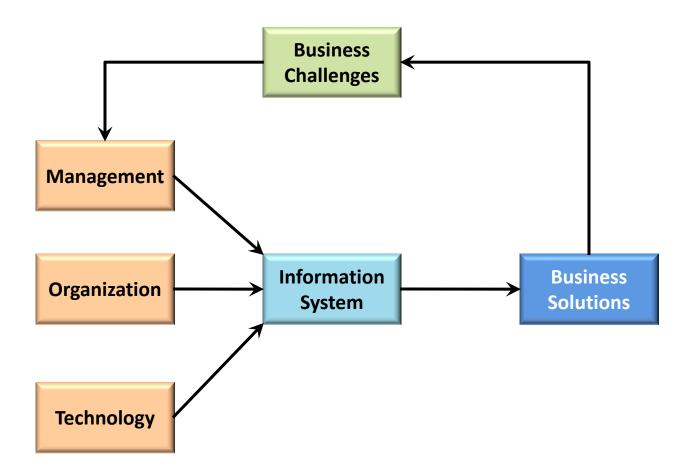
- 週次 日期 內容(Subject/Topics)
- 13 103/12/09 Knowledge Management: Tata Consulting Services (Chap. 11)
- 14 103/12/16 Enhancing Decision Making: CompStat (Chap. 12)
- 15 103/12/23 Building Information Systems: Electronic Medical Records (Chap. 13)
- 16 103/12/30 Managing Projects: JetBlue and WestJet (Chap. 14)
- 17 104/01/06 Final Report (期末報告)
- 18 104/01/13 期末考試週

Chap. 7 Telecommunications, the Internet, and Wireless Technology: Google, Apple, and Microsoft

Case Study: Google, Apple, and Microsoft (Chap. 7) Google, Apple, and Microsoft struggle for Your Internet Experience

- 1. Define and compare the business models and areas of strength of Apple, Google, and Microsoft.
- 2. Why is mobile computing so important to these three firms? Evaluate the mobile platform offerings of each firm.
- 3. What is the significance of applications and app stores to the success or failure of mobile computing?
- 4. Which company and business model do you believe will prevail in this epic struggle? Explain your answer.
- 5. What difference would it make to you as a manager or individual consumer if Apple, Google, or Microsoft dominated the Internet experience? Explain your answer.

Overview of Fundamental MIS Concepts



Understanding Business Model

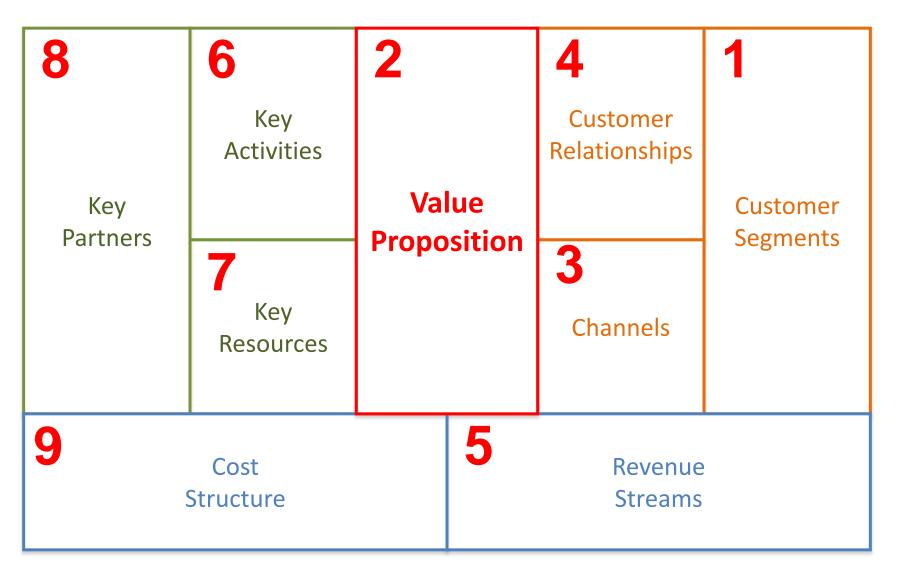
- Business Model
- Revenue Model

- Business Strategy
- Business Strategy and Information System Alignment

Business Model

Value

Business Model



Definition of Business Model

A business model describes the rationale of how an organization creates, delivers, and captures value.

E-commerce Business Models

- 1. Portal
- 2. E-tailer
- 3. Content Provider
- 4. Transaction Broker
- 5. Market Creator
- 6. Service Provider
- 7. Community Provider

E-commerce Revenue Models

- 1. Advertising
- 2. Sales
- 3. Subscription
- 4. Free/Freemium
- 5. Transaction Fee
- 6. Affiliate

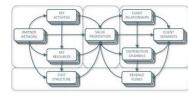
Types of E-commerce

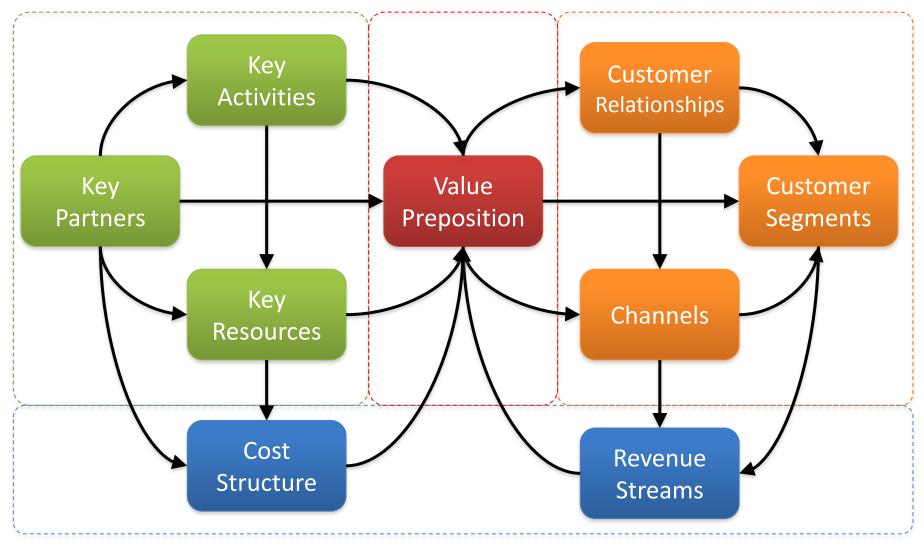
- 1. Business-to-consumer (B2C)
- 2. Business-to-business (B2B)
- 3. Consumer-to-consumer (C2C)
- 4. Mobile commerce (m-commerce)

Definition of Business Model

A business model describes the rationale of how an organization creates, delivers, and captures value.

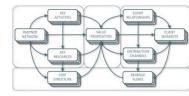
Business Model Canvas

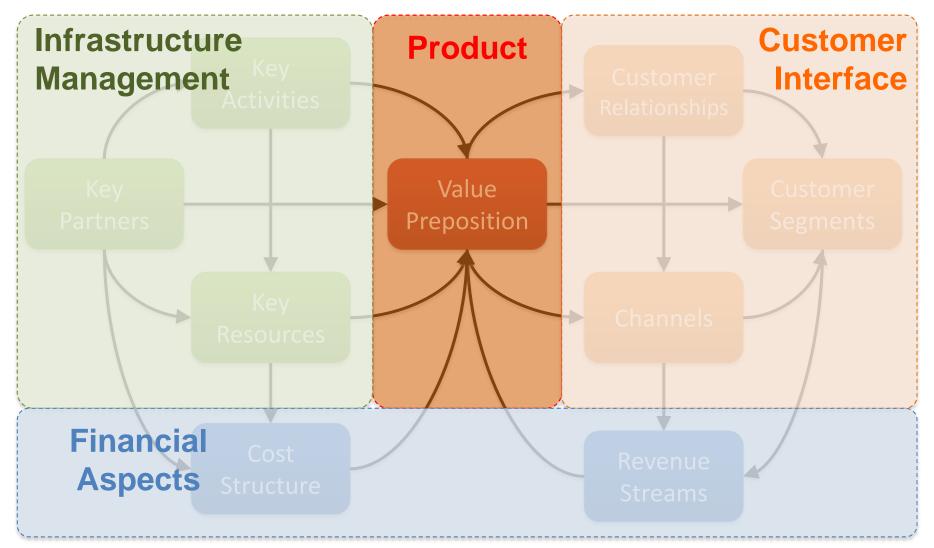




Source: <u>http://nonlinearthinking.typepad.com/nonlinear_thinking/2008/07/the-business-model-canvas.html</u> <u>https://www.youtube.com/watch?v=QoAOzMTLP5s</u>

Business Model Canvas



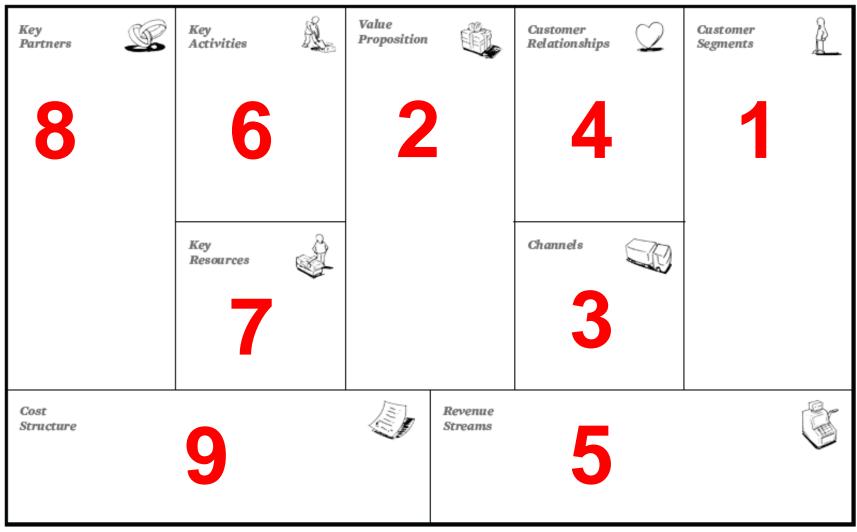


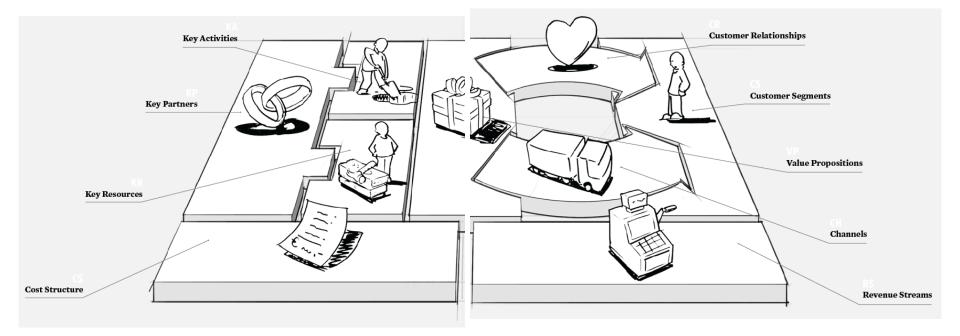
Source: http://nonlinearthinking.typepad.com/nonlinear_thinking/2008/07/the-business-model-canvas.html https://www.youtube.com/watch?v=QoAOzMTLP5s

Business Model Canvas Explained



Source: http://www.youtube.com/watch?v=QoAOzMTLP5s

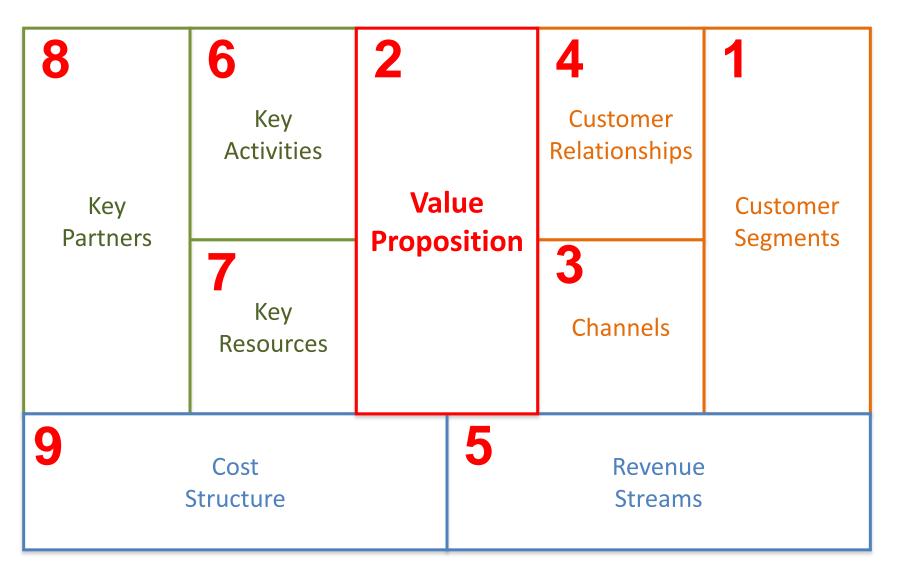




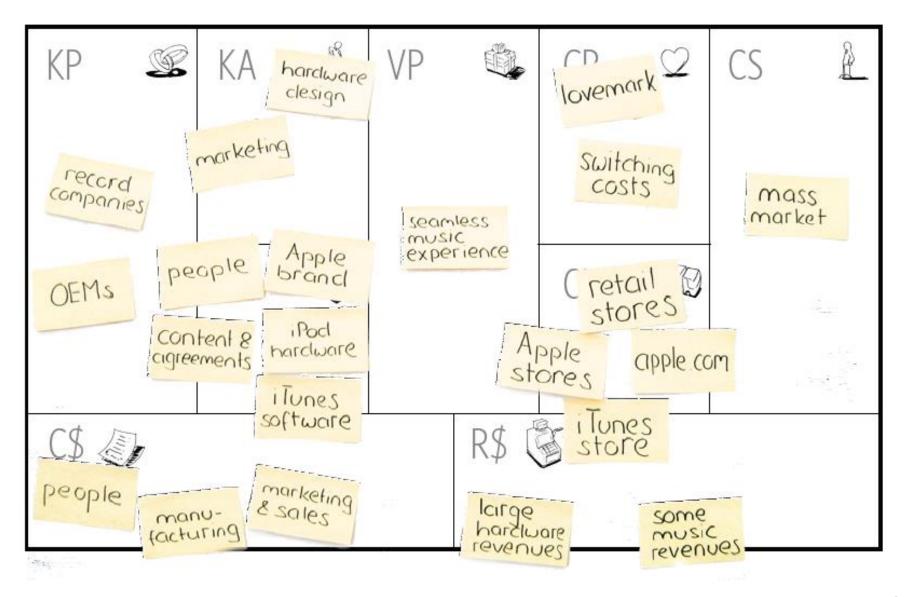
- 1. Customer Segments
 - An organization serves one or several Customer Segments.
- 2. Value Propositions
 - It seeks to solve customer problems and satisfy customer needs with value propositions.
- 3. Channels
 - Value propositions are delivered to customers through communication, distribution, and sales Channels.
- 4. Customer Relationships
 - Customer relationships are established and maintained with each Customer Segment.

- 5. Revenue Streams
 - Revenue streams result from value propositions successfully offered to customers.
- 6. Key Resources
 - Key resources are the assets required to offer and deliver the previously described elements...
- 7. Key Activities
 - ...by performing a number of Key Activities.
- 8. Key Partnerships
 - Some activities are outsourced and some resources are acquired outside the enterprise.
- 9. Cost Structure
 - The business model elements result in the cost structure.

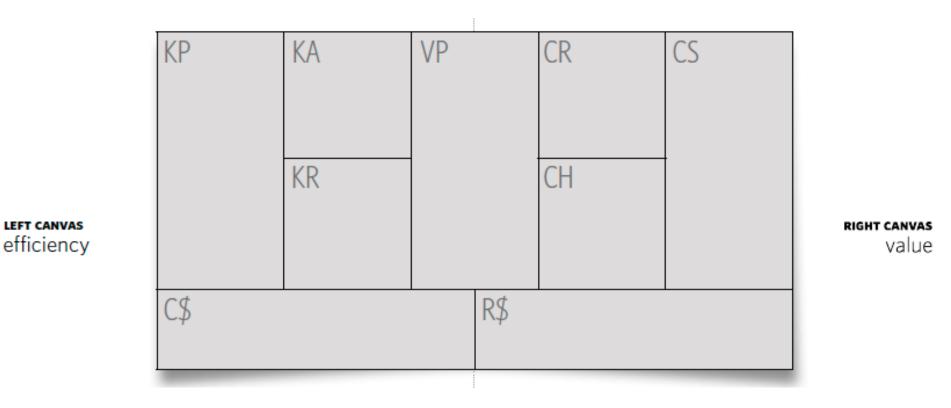
Business Model

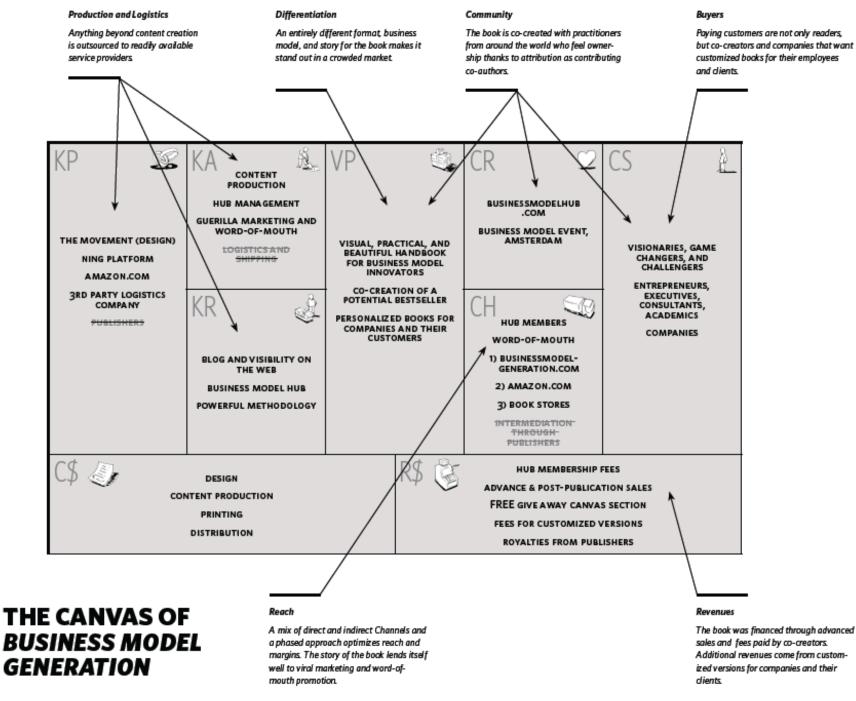


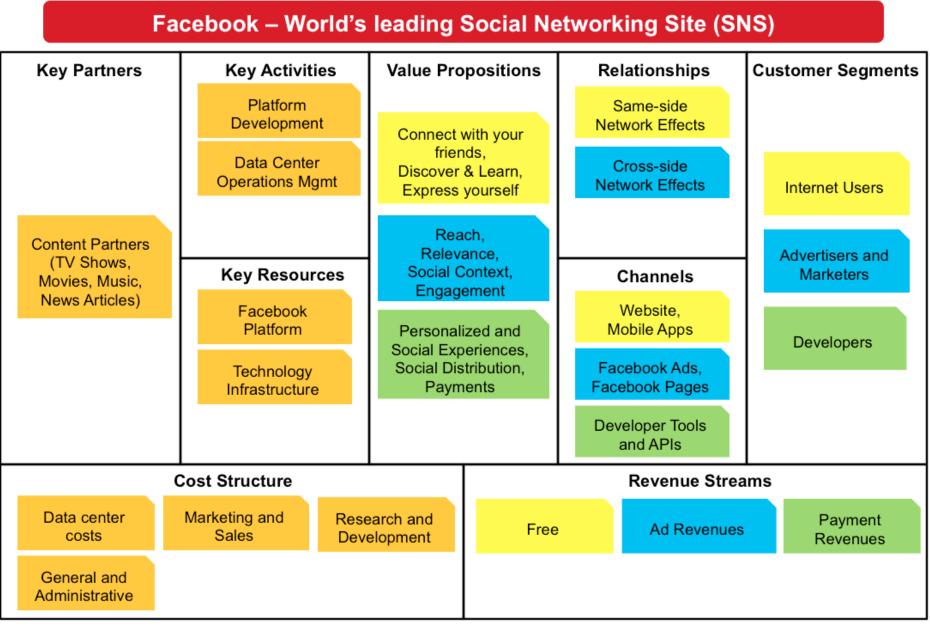
Business Model Generation

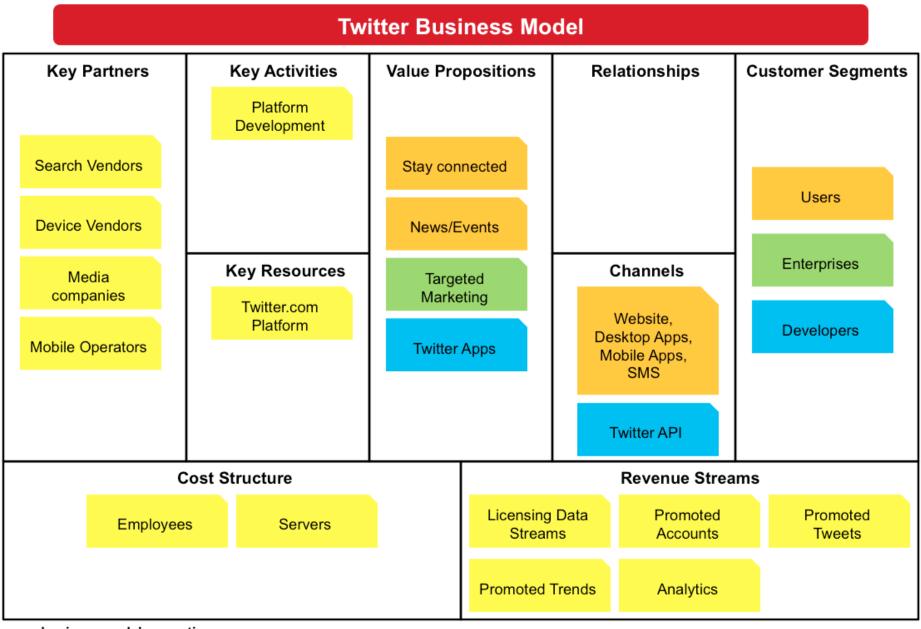


Business Model Generation



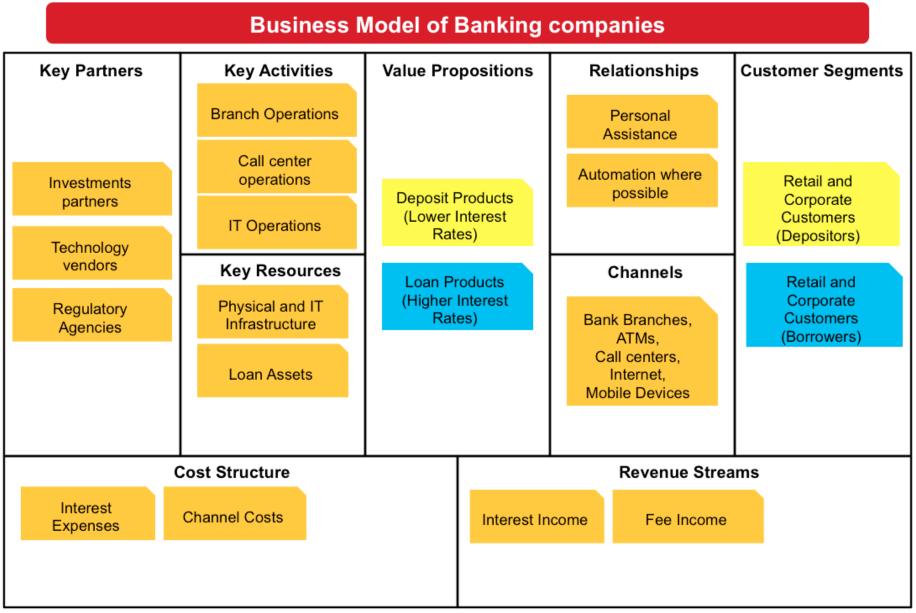


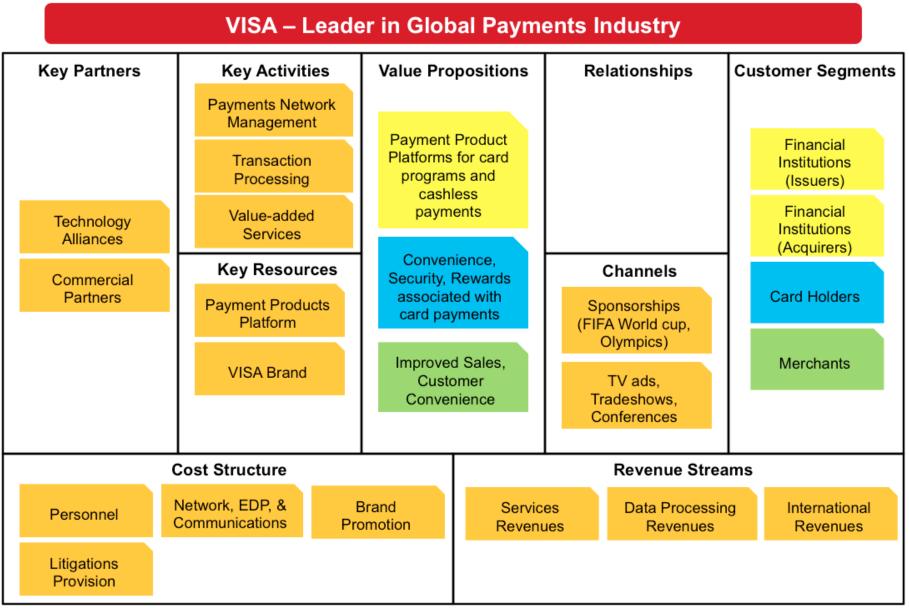


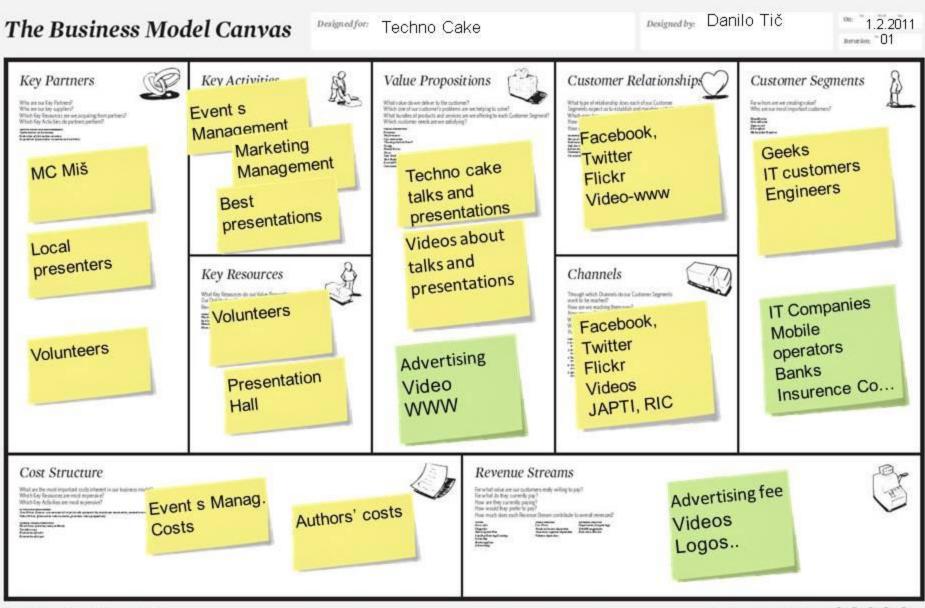


Google Business Model											
Key Partners	Key Activities		Value Propositions		Relationshi	ps	Customer Segments				
Distribution Partners Open Handset Alliance OEMs (for Chrome OS devices)	R&D – Build New Products, Improve Existing products		Web Search, Gmail, Google+		Automation (where possible)		Internet Users				
	Manage Massive IT Infrastructure		Targeted Ads using Adwords (CPC)		Dedicated Sales for large accounts		Advertisers, Ad Agencies				
			Extend Ad campaigns using Adsense				Google Network Members				
	Key Resources				Channels						
	Datacenters		Display Advertising Mgmt Services		Global Sales and Support Teams		Mobile device owners				
	IPs, Brand		OS and Platforms – Android, Chrome OS Hosted web-based Google Apps		Multi-product Sales force		Developers				
							Enterprises				
c	1	Revenue Streams									
		R&D Costs (ma personnel)	inly				d Revenues – gle n/w websites				
Data center operations		S&M, G&A		Enterprise Product Sales			Free				

LinkedIn – World's Largest Professional Network											
Key Partners	Key Activities		Value Propositions		Relationships		Customer Segments				
	Platform					Same-side twork Effects					
	Development		Manage Professional Identity and Build Professional Network Identify and Reach the Right Talent		Cross-side Network Effects Channels		Internet Users				
Equinix (for data center facilities)	Key Resources						Recruiters				
Content Providers	LinkedIn Platform		Reach the Target Audience		LinkedIn Website, Mobile Apps		Advertisers and Marketers				
				Access to LinkedIn Database Content via APIs and Widgets		Field Sales	Developers				
		Revenue Streams									
Web Hosting costs			roduct Free Offe elopment Subscrip		nium Hiring Solutions		Marketing Solutions				
General and Administrative											







Customer Value

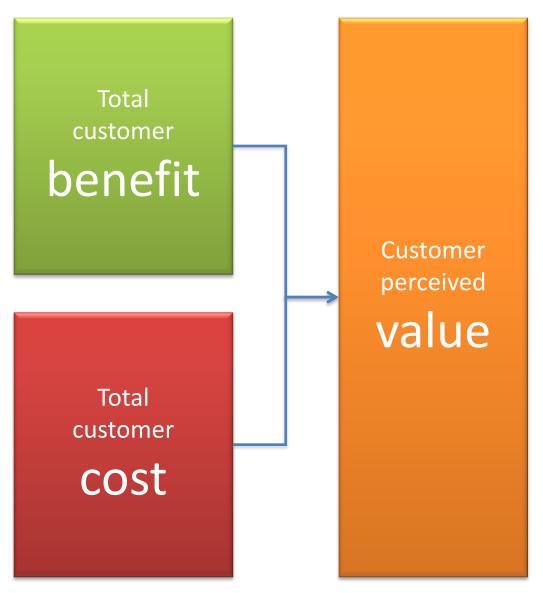
Marketing

"Meeting needs profitably"

Value

the sum of the tangible and intangible benefits and costs





Source: Philip Kotler & Kevin Lane Keller, Marketing Management, 14th ed., Pearson, 2012

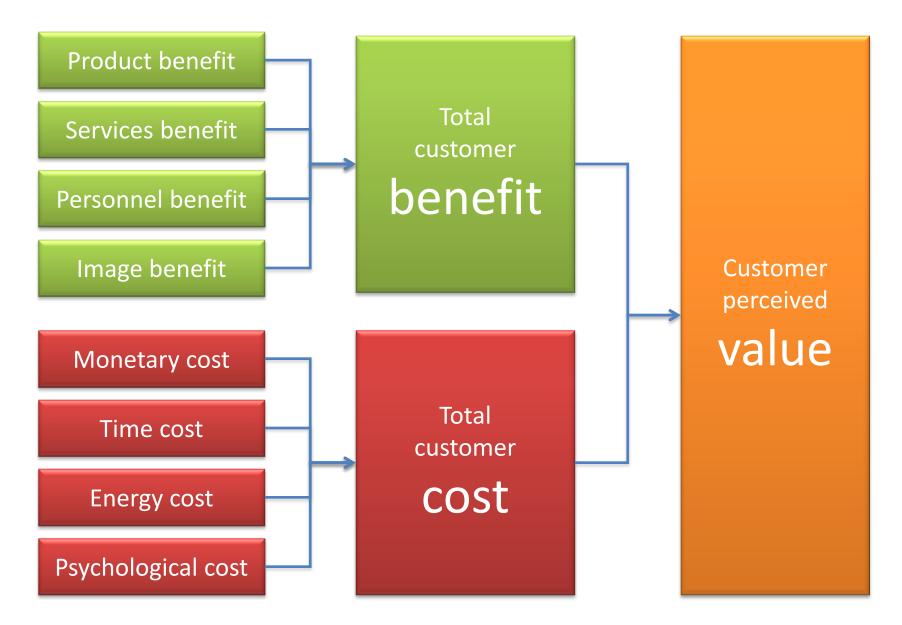


Value and Satisfaction

- Marketing
 - identification, creation, communication, delivery, and monitoring of customer value.
- Satisfaction
 - a person's judgment of a product's perceived performance in relationship to expectations

Building **Customer Value,** Satisfaction, and Loyalty

Customer Perceived Value



Source: Philip Kotler & Kevin Lane Keller, Marketing Management, 14th ed., Pearson, 2012

Satisfaction

"a person's feelings of pleasure or disappointment that result from comparing a product's perceived performance (or outcome) to expectations"

Loyalty

"a deeply held commitment to rebuy or repatronize a preferred product or service in the future despite situational influences and marketing efforts having the potential to cause switching behavior."

Customer Perceived Value, Customer Satisfaction, and Loyalty



CEO CIO CFO



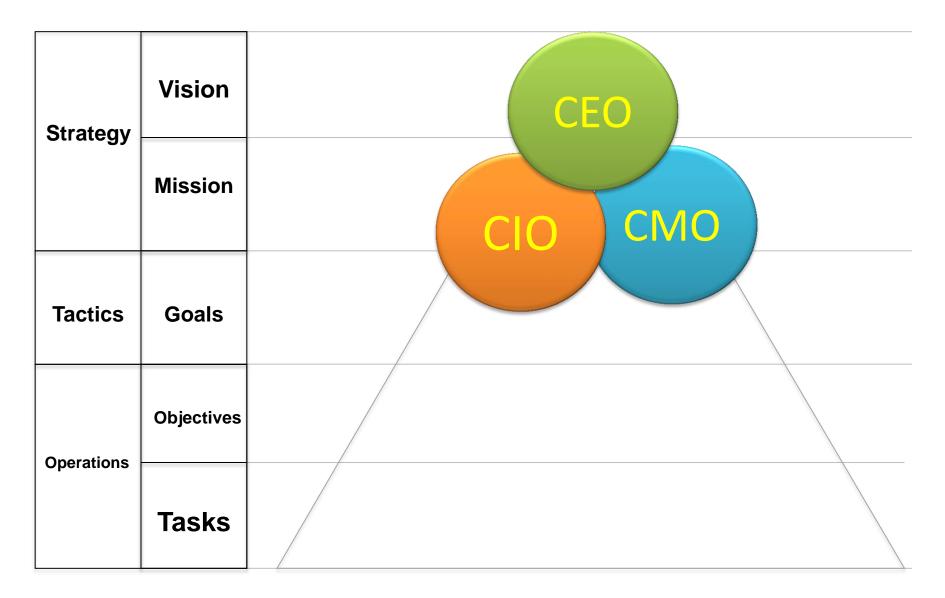
Source: http://www.r3now.com/what-is-the-proper-relationship-for-the-cio-ceo-and-cfo/

CEO CIO CMO



Adapted from: http://www.r3now.com/what-is-the-proper-relationship-for-the-cio-ceo-and-cfo/

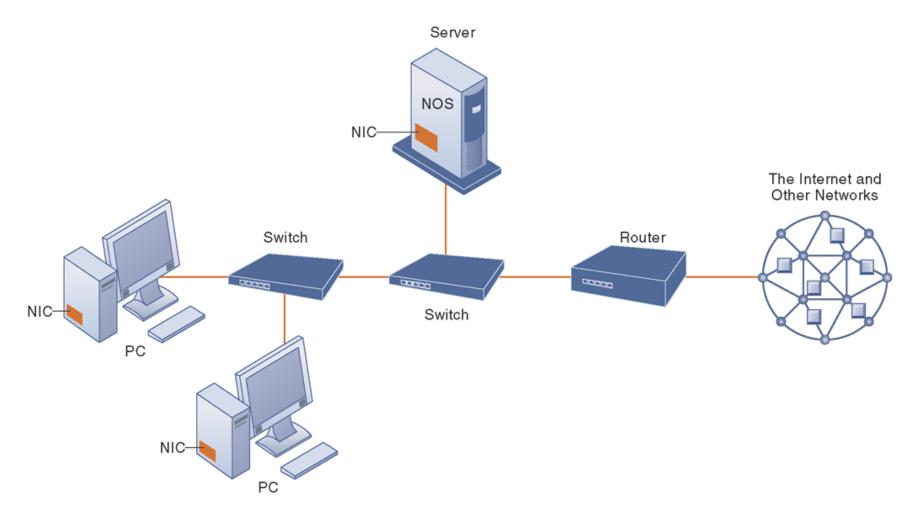
CEO CIO CMO



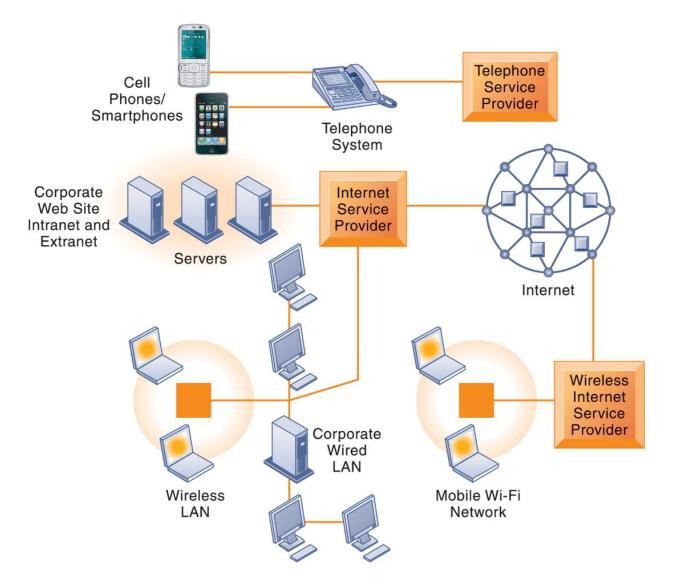
Nothing IS so practical as a good theory

Source: Backer & Saren (2009), Marketing Theory: A Student Text, 2nd Edition, Sage

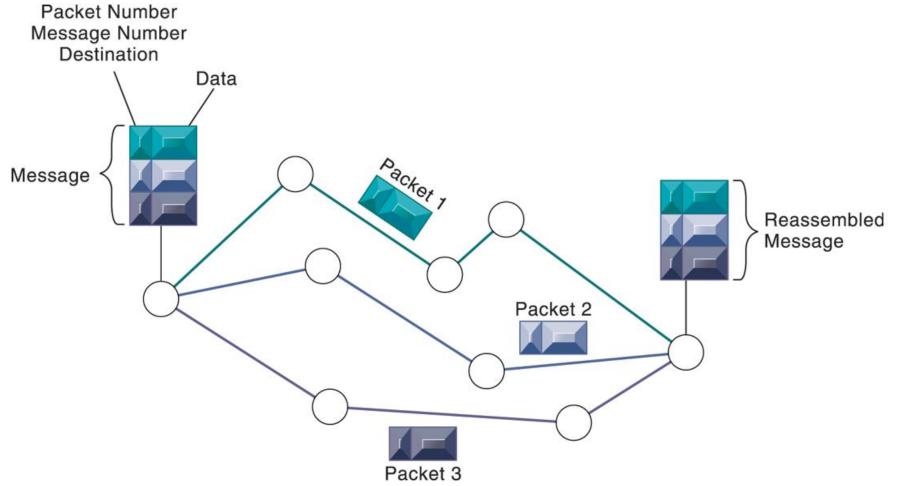
COMPUTER NETWORK



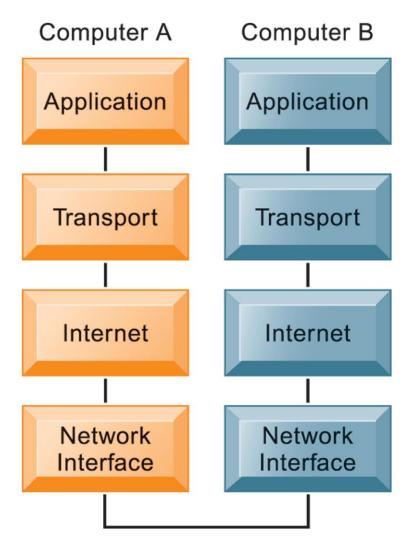
CORPORATE NETWORK INFRASTRUCTURE



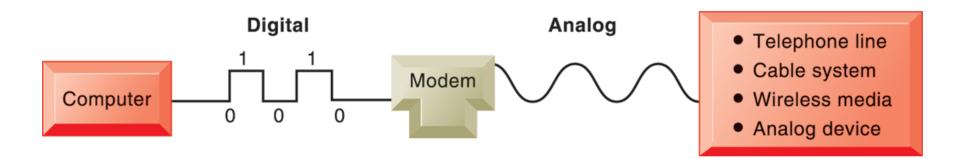
PACKED-SWITCHED NETWORKS AND PACKET COMMUNICATIONS



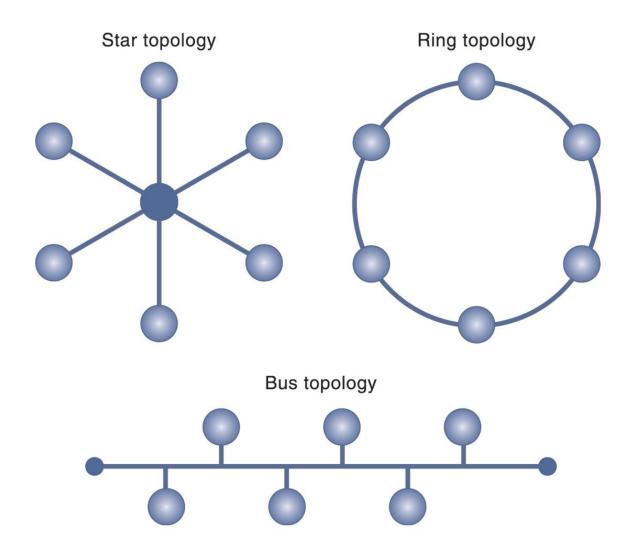
THE TRANSMISSION CONTROL PROTOCOL/ INTERNET PROTOCOL (TCP/IP) REFERENCE MODEL



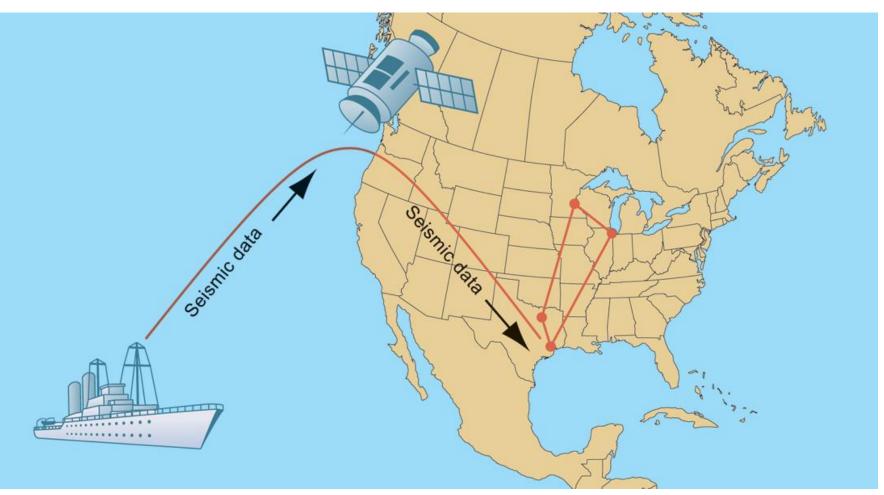
FUNCTIONS OF THE MODEM



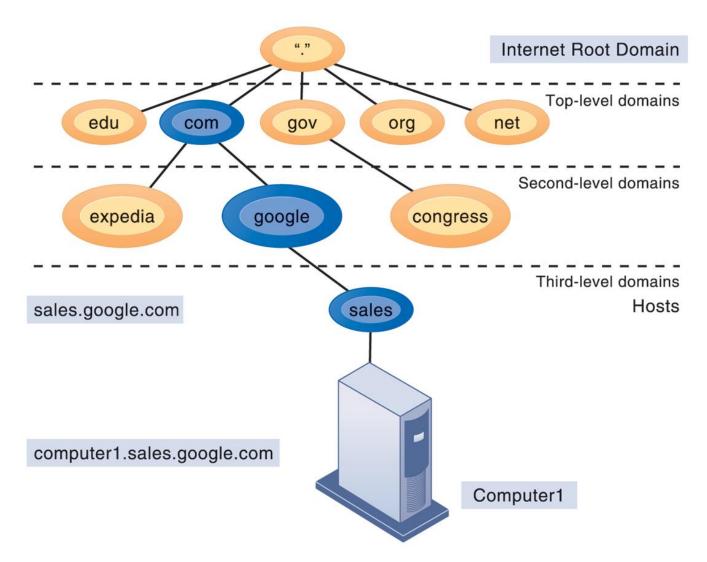
NETWORK TOPOLOGIES



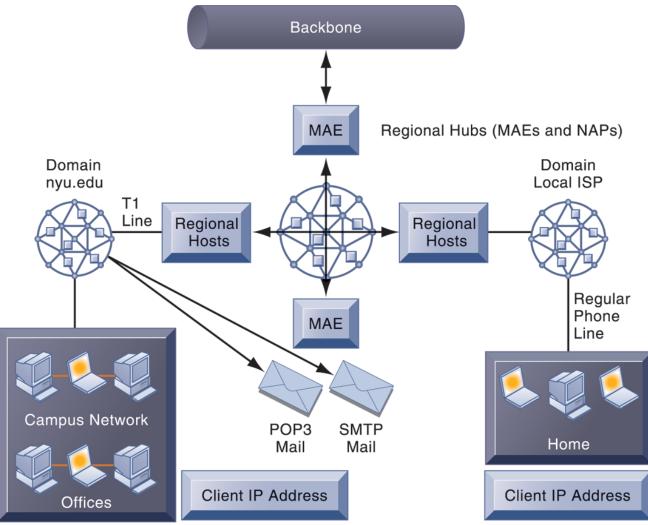
BP'S SATELLITE TRANSMISSION SYSTEM



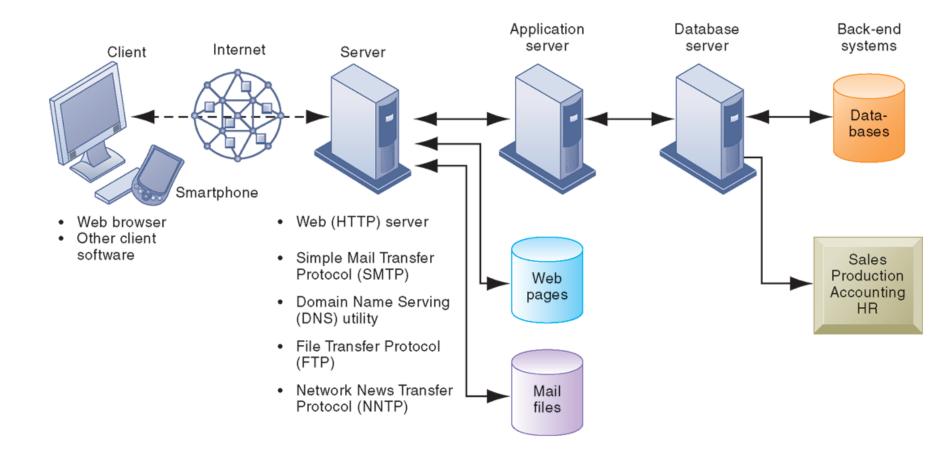
THE DOMAIN NAME SYSTEM



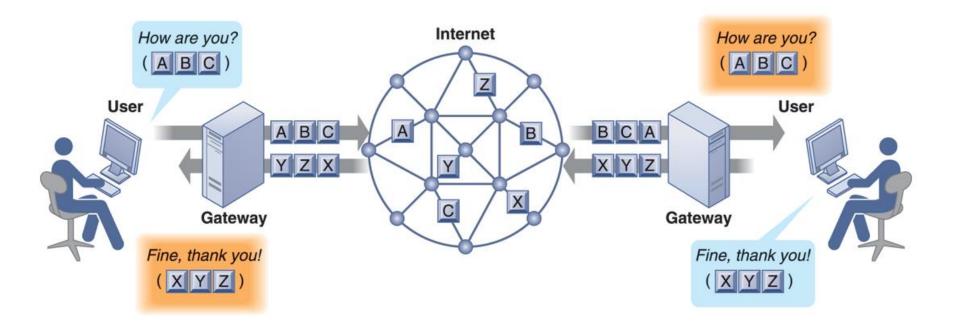
INTERNET NETWORK ARCHITECTURE



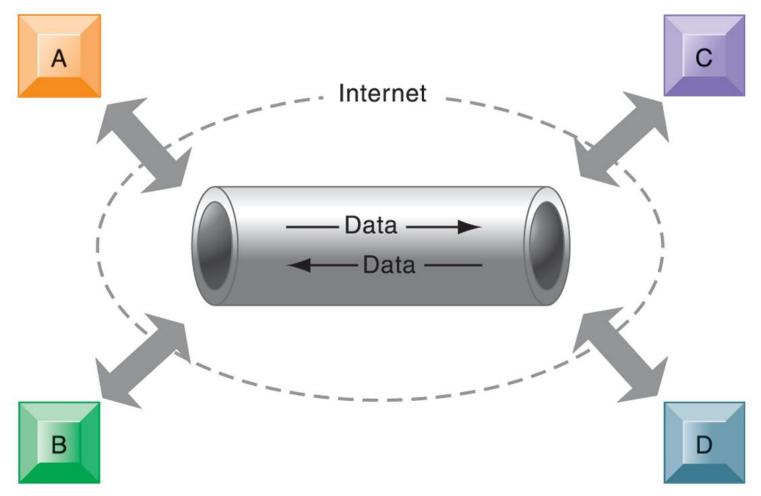
CLIENT/SERVER COMPUTING ON THE INTERNET



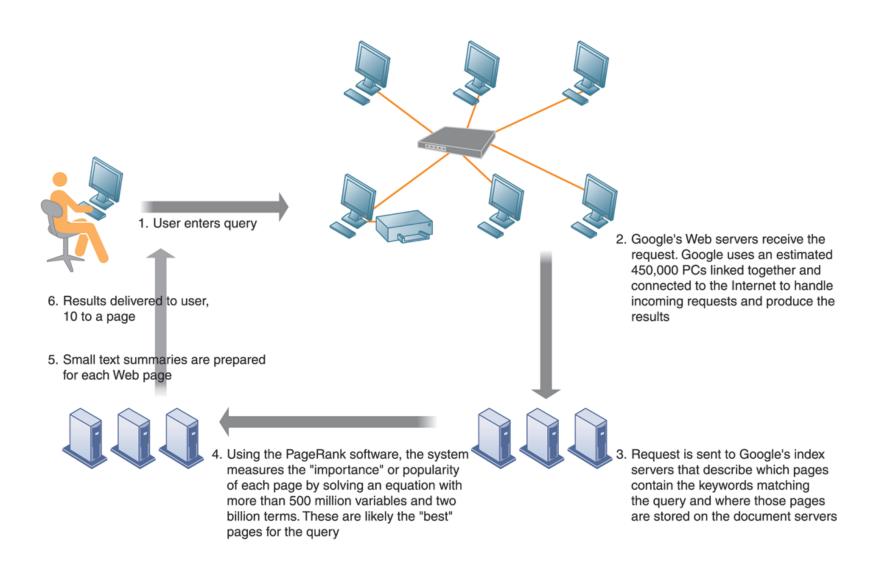
HOW VOICE OVER IP WORKS



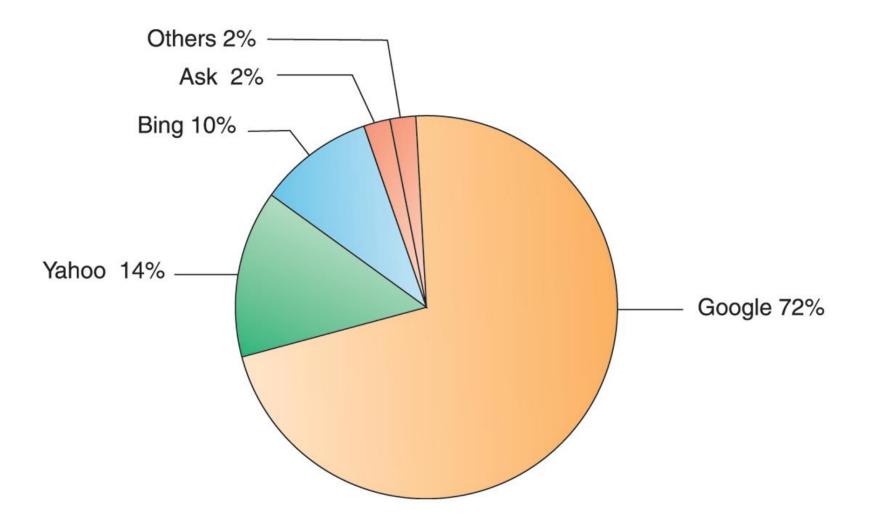
A VIRTUAL PRIVATE NETWORK USING THE INTERNET



HOW GOOGLE WORKS



TOP U.S. WEB SEARCH ENGINES



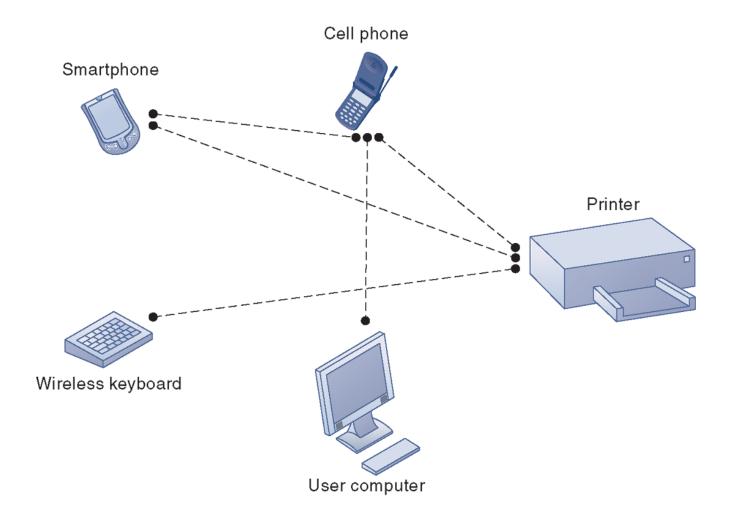
Web 2.0

- Four defining features
 - 1. Interactivity
 - 2. Real-time user control
 - 3. Social participation
 - 4. User-generated content
- Technologies and services behind these features
 - Cloud computing
 - Blogs/RSS
 - Mashups & widgets
 - Wikis
 - Social networks

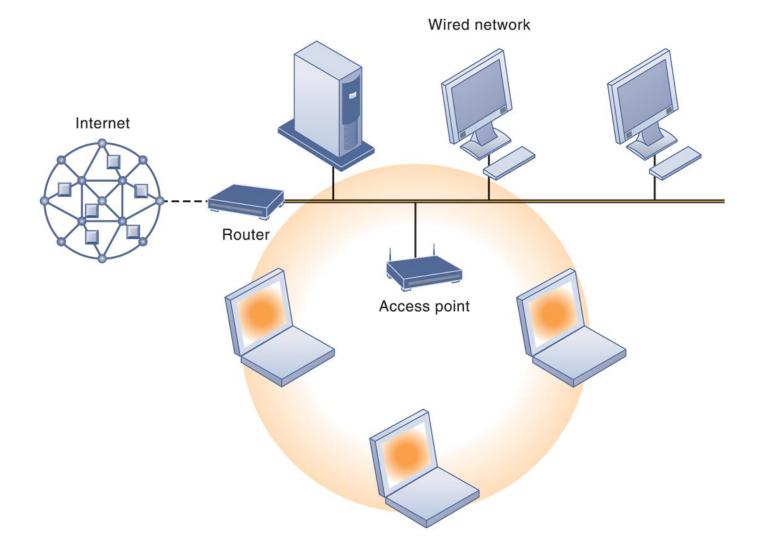
Web 3.0: The Future Web

- Web 3.0 the Semantic Web
 - Effort of W3C to add meaning to existing Web
 - Make searching more relevant to user
- Other visions
 - More "intelligent" computing
 - 3D Web
 - Pervasive Web
 - Increase in cloud computing, SaaS
 - Ubiquitous connectivity between mobile and other access devices
 - Make Web a more seamless experience

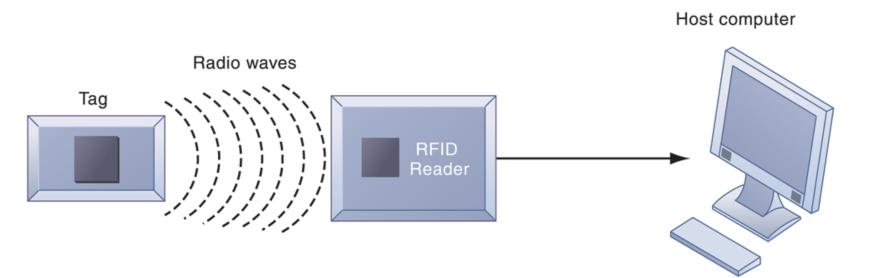
A BLUETOOTH NETWORK (PAN)



AN 802.11 WIRELESS LAN



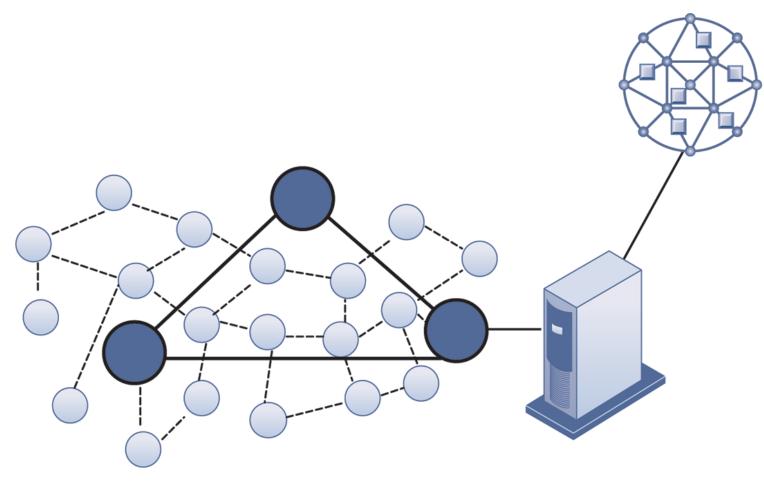
HOW RFID WORKS



A microchip holds data including an identification number. The rest of the tag is an antenna that transmits data to a reader. Has an antenna that constantly transmits. When it senses a tag, it wakes it up, interrogates it, and decodes the data. Then it transmits the data to a host system over wired or wireless connections. Processes the data from the tag that have been transmitted by the reader.

A WIRELESS SENSOR NETWORK

Internet



Case Study: Facebook (Chap. 8) (pp.319-320) You're on Facebook? Watch out!

- 1. What are the key security issues of the Facebook?
- 2. Why is social-media malware hurting small business?
- 3. How to manage your Facebook security and privacy?
- 4. What are the components of an organizational framework for security and control?
- 5. Security isn't simply a technology issue, it's a business issue. Discuss.



(Case Study for Information Management)

- 請同學於資訊管理個案討論前 應詳細研讀個案,並思考個案研究問題。
 請同學於上課前複習相關資訊管理相關 理論,以作為個案分析及擬定管理對策的 依據。
- 請同學於上課前
 先繳交個案研究問題書面報告。

References

- Kenneth C. Laudon & Jane P. Laudon (2012),
 Management Information Systems: Managing the Digital Firm, Twelfth Edition, Pearson.
- 周宣光 譯(2011),
 資訊管理系統—管理數位化公司,
 第12版,東華書局