Management Information Systems

Chapter One: The Information Age



Getting Started... some definitions

- ✓ Data
- **y** Event
- ▼ Sensor
- **∀** Information
- ▼ Intelligence

- ✓ Person-Person (P2P)
- ▼ Person-Machine(P2M)
- ✓ MachineMachine(M2M)
- ▼ Protocol
- **∨** M-commerce

Global M2M:

Connecting the world's assets

ORBCOMM is the leading provider of global satellite and cellular data communications solutions purpose-built for asset tracking, management and remote control.

LEARN MORE >





M-commerce

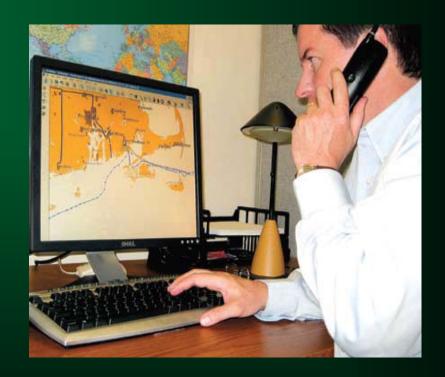
- ✓ On page 4 of the text it says "Cell technology... the jury is still out..."
- ➤ Answer the jury is in.. Mobile access to the web is growing extremely fast and becoming one of the prime methods by which people access web content
- ✓ M-commerce means e-commerce in a mobile context

http://www.witiger.com/ecommerce/mcommerceintro.htm



Understanding the need for Information Technology

- ▼ Understanding an Industry Sector
- Assess the state of competition and industry pressure
- Determine critical business strategies
- ✓ Develop business processes that support these strategies
- ✓ Align technology tools with these processes





Information as a Key Resource

- **∀**Business Intelligence
- ✓ Necessary due to the intensity of the competitive environment
- ✓ And the fast paced advances in the technological environment

http://www.witiger.com/ecommerce/competition.htm



Information as a Key Resource

- ▼ Business Intelligence
- ▼ Business Competitors are
- ✓ Other organizations offering the same product or service now
- V Other organizations offering similar products or services now
- ✓ Organizations that *could* offer the same or similar products or services in the future
 - not so obvious
 - like Rogers video stores getting into the cell phone market to compete w Bell Mobility
- ✓ Organizations that *could remove the need* for a product or service we sell
 - not obvious at all, but really important to know who is going to make you extinct
 - like the internet removing the need for encyclopedia's
 - like www.canada411.ca removing the need for "white pages"



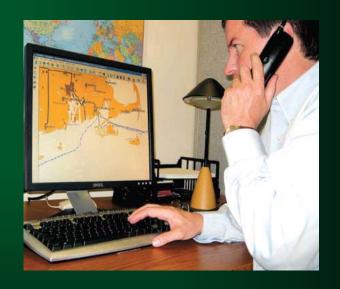
Information as a Key Resource

- **∀** The possession of information is often considered a critical part of corporate competitiveness
- **∀** "Information itself is not so valuable
- **∀** manipulate it,
- **y** synthesize it so you can draw conclusions which can assist in decisions



Understanding the need for Information Technology

- ✓ Understanding an Industry Sector
- ✓ see Prof. Richardson's
 YouTube video about the
 importance of knowing an
 industry sector
- It is critical to have a basic understanding of the industry in which the IT is required, in order to assess MIS requirements



http://www.youtube.com/watch?v=Zh_3o1npTEg





- Whether or not information is useful and worth the price is based upon its:
 - Timeliness
 - Location
 - Form
 - Validity

Page 9 in the text





- Usefulness of information
- ✓ Click on the screen capture to go to Prof. Richardson's website discussing the difference between Information and Intelligence

http://www.witiger.com/ecommerce/competitorintelligence.htm





- ▼ Usefulness of information
- ▼ First keep in mind not all information is useful. Sometimes the collection of massive amounts of data has no consequence unless that collection can be done in a way which allows the data to be synthesized, indexed and retrieved then it becomes information

http://www.witiger.com/ecommerce/competitorintelligence.htm





- ▼ Usefulness of information
- ➤ Secondly the prime difference between information and intelligence is that intelligence is essentially information that allows you to make a strategic decision

http://www.witiger.com/ecommerce/competitorintelligence.htm



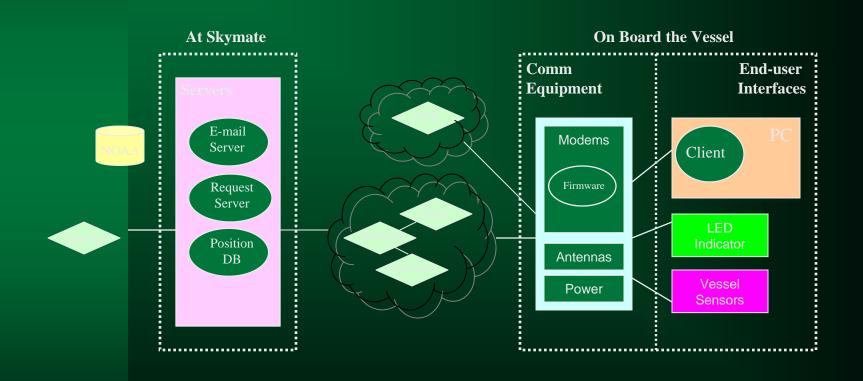
Information Technology

∀Technology Categories:

- Input Device
- Output Device
- Storage Device
- Central Processing Unit
- Communications Device
- Connection Device



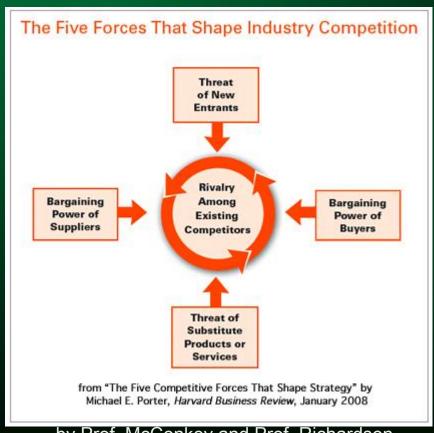
Technology Categories Example: SkyMate Inc





Strategy and Information Systems

∨Porter's 5 Forces Model:

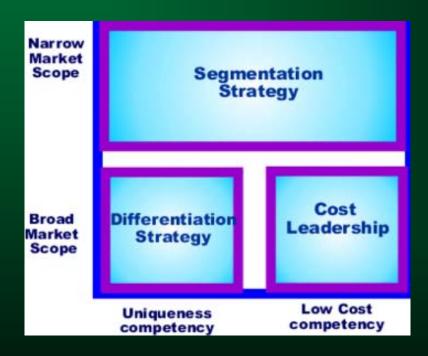


by Prof. McConkey and Prof. Richardson



Strategy and Information Systems

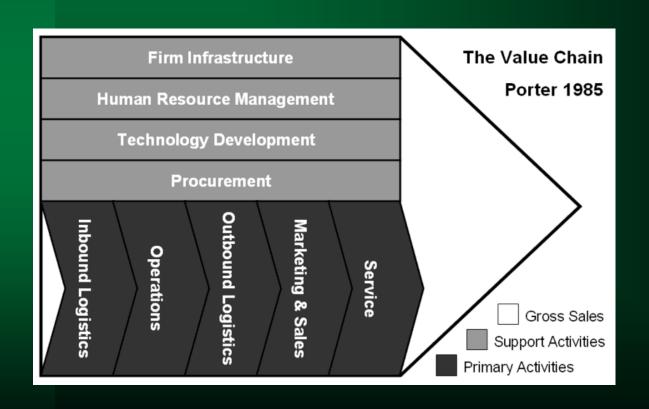
▼Porter's Three Generic Business Strategies:





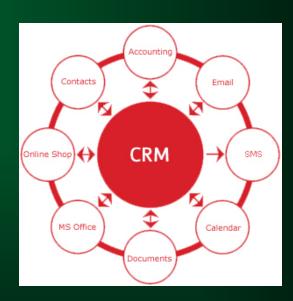
Strategy and Information Systems

∀The Value Chain:



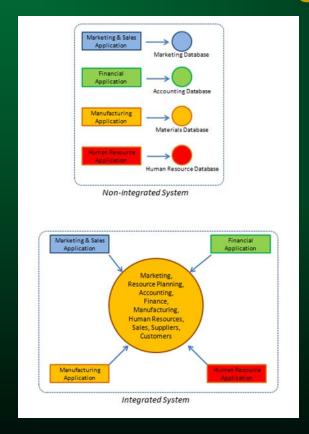


- **∨** Customer Relationship
- ▼ Management (CRM):



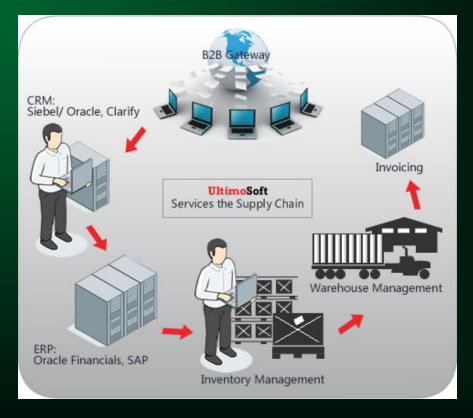


▼Enterprise Resource Planning:





▼Supply Chain Management:



- Supply Chain Management:
- "a company's supply chain encompasses the
- voordination of materials
- **∀**information
- **v** and funds



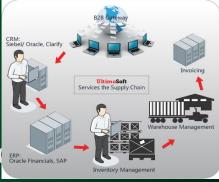


- ▼ Supply Chain Management:
- ∀ "a company's supply chain encompasses the
- v coordination of materials
 - time of the materials arrival
 - location related to the production process
 - warehousing
 - storage
 - packaging of the materials inbound

- Supply Chain Management:
- "a company's supply chain encompasses the
- **∀**information



- price fluctuations
- currency exchange rate considerations



- ▼ Supply Chain Management:
- ∀ "the suppliers are broken down into 3 categories (all of which need MIS functions)
 - third tier supplier raw materials
 - (eg. the polyethylene [plastic] pellets which get heated, then blowmoulded into the shape of the fan blades)
 - (eg. the company that takes the raw copper ingots and extrudes them into copper wire, which is used to make the motor)
 - second tier supplier subcomponents
 - (eg. motor in the fan assembly)
 - first tier supplier complete components
 - (eg. cooling fan assembly in a computer)

