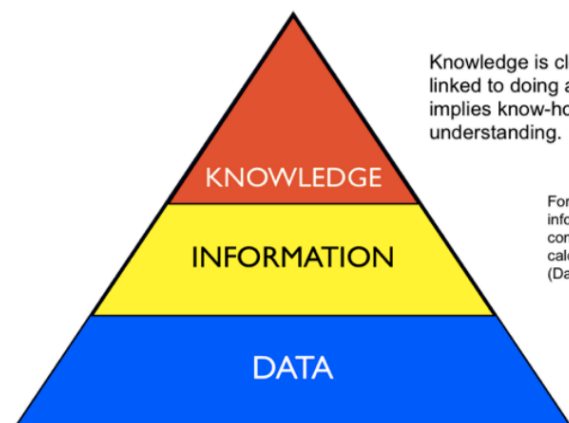


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LECTURE 1: INTRODUCTION TO ACCOUNTING INFORMATION SYSTEMS

- Today, every company = technology company
 - Dependency on technology is higher than the past → progression towards a digital lifestyle
 - Customer technology usage
 - Different consumer needs → e.g. wanting to track parcels (tech)
 - Quicker processing
 - More information
- To maintain and smoothly run businesses, make sure to:
 - Document processes
 - Cyber security
 - Companies make/spend money
 - Protect assets
 - Accounting information systems
- Accounting Information Systems (AIS)
 - Accountants act as users, auditors and consultants of AIS
 - Every business uses AIS
- Information offers competitive advantage
 - Market analysis
 - Customer preferences → competitive scope
 - Info revolution is affecting competition in:
 - Change in business processes
 - Providing competitive advantage
 - Development in new businesses
- Case study - AAMI App
 - Why develop?
 - Gather information - behavioural factors
 - Data about drivers → real data
 - Pricing premiums dependent on driving skill
 - Use of IT to improve business
 - Competitive advantage?
 - Self-selective → does not have to utilise app
 - Real data vs informational data
- What does matter?
 - Doing something better and cheaper than competition is always valuable, even if competitive advantage is only temporary
 - Storage and usage of invaluable information
- **Data, Information and Knowledge**
 - Data vs Information
 - Data are raw facts relating to or describing an even
 - Data becomes useful when the application of rules or knowledge enable a conversion into information
 - Information used in decision making



Knowledge is closely linked to doing and implies know-how and understanding.

For data to become information, it must be contextualized, categorized, calculated and condensed (Davenport & Prusak 2000)

Data is "unstructured facts a figures that have the least impact on the typical manag Thierauf (1999)

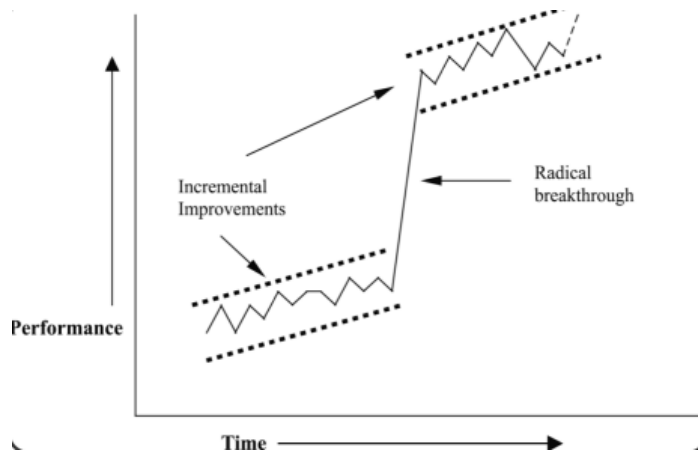
- Too much info = information overload
- E.g. Data - rows of data in excel, Info - data features (Autofilter) turn data into info, Knowledge - turn into intelligence through analytical tools

LECTURE 2: BUSINESS PROCESSES

- Effect of change/ influences
 - E.g. government tax, natural disasters
 - Change can result from multiple places → including technology
- Change and disruption becoming quicker and quicker
 - Adoption of change and technology
 - Embrace and understand change
- **Competitive advantage** (in relation to previous lecture)
 - Any assets that provide an organisation with an edge against its competitors in some measure such as cost, quality or speed
 - Helps org to control a market and to accrue larger than avg. profits
 - Essential for org.'s survival
 - Becoming knowledgeable about strategy and how info systems can affect strategy and competitive position will help you throughout your career
 - Key questions:
 - What is their competitive advantage?
 - What are they best at?
 - Why do customers buy from them?
 - Do IS help support their competitive advantage? How?
 - Provides orgs with an edge against its competitors
- **Porters Five Forces Model ****
 - Rivalry among existing competitors:**
 - Current status within the market that a business operates within
 - Threat of substitute products or services:**
 - Products or services that can be used as an alternative to what the industry currently produces
 - Bargaining power of suppliers**
 - Supplier can find itself in a strong bargaining position if it is the only business able to provide a particular product or service
 - Bargaining power of buyers**
 - Organisation that has a small number of specialist customers cannot afford to lose them → hence, customer is in a position of relative strength
 - Threat of new entrants**
 - New orgs entering an industry create increased competition for the existing participants
 - Using 5 forces model, org can analyse its industry to identify opportunities and threats and then develop tactics for these situations
- Competitors are not your only rivals
- Change in business can be very small → to radical
- ** Below are important, remember to know how to differentiate the two
- **Business Process Reengineering (BPR)**
 - *Radical redesign* of an orgs business processes
 - Increases productivity and profitability

- Examines business processes with a “clean slate approach”
- Removes all businesses previous processes and starts anew
- Tries to dramatically improve areas of business
- It is a ground-up design
- **Business Process Improvement (BPI)**
 - *Incremental approach* to move an org toward business process centered operations
 - Focuses on reducing variation in process outputs by identifying the underlying cause of the variation
 - → framework e.g. Six Sigma
 - 5 basic phases of successful BPI
 - define, measure, analyse, improve, control
 - **BPR vs BPI**

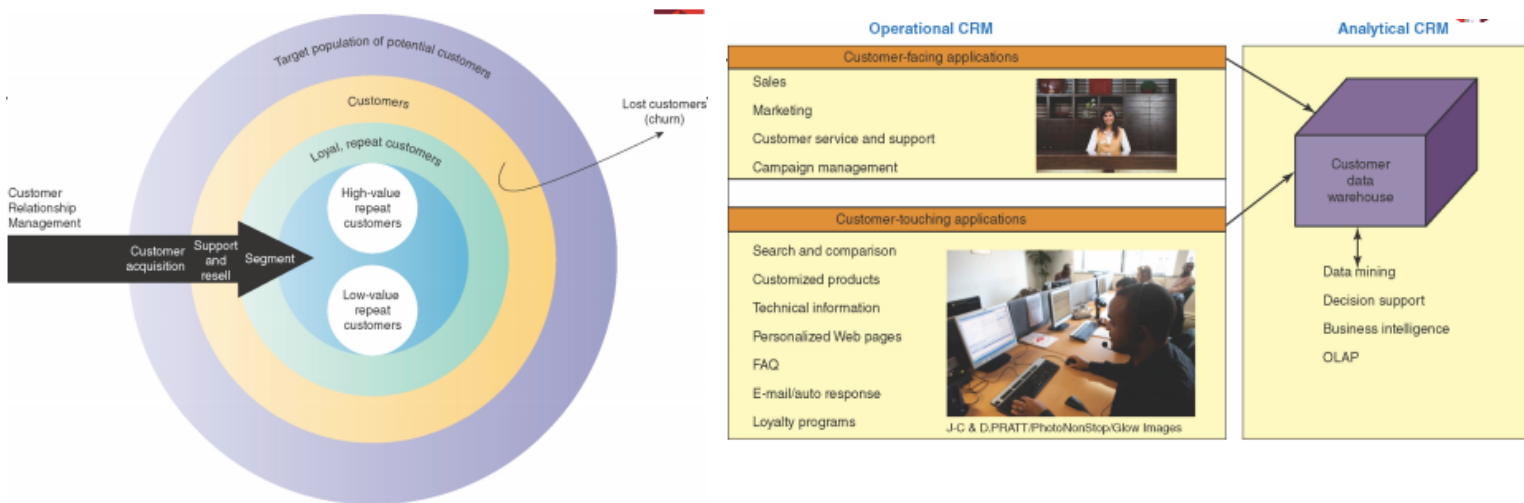
<u>BPI</u>	<u>BPR</u>
Low risk/ low cost	High risk/ high cost
Incremental change	Radical redesign
Bottom-up approach	Top-down approach
Takes less time	Time consuming
Quantifiable results	Impacts can be overwhelming
All employees trained in BPI	High failure rate
 - Change is constant → two ways companies deal with changing their business processes are BPI and BPR
- **Business Process Management (BPM)**
 - Management system used to support continuous BPI initiatives for core business processes over time
- Incremental vs Radical



- Lecture example: Botox is to BPI as Cosmetic surgery is to BPR
- Business - Information technology alignment
 - Tight integration of IT function → in line with org's strategy, mission, goals
 - IT helps in achieving business processes overall
 - **6 characteristics of business-IT alignment**
 - IT viewed as an engine of innovation continually transforming the business and often creating new revenue streams
 - Organizations view their internal & external customers and their customer service function as supremely important
 - Organizations rotate business and IT professionals across departments and job functions
 - Organizations provide overarching goals that are completely clear to each IT and business
 - Organizations ensure that IT employees understand how the company makes (or loses) money
 - Organizations create a vibrant and inclusive company culture.

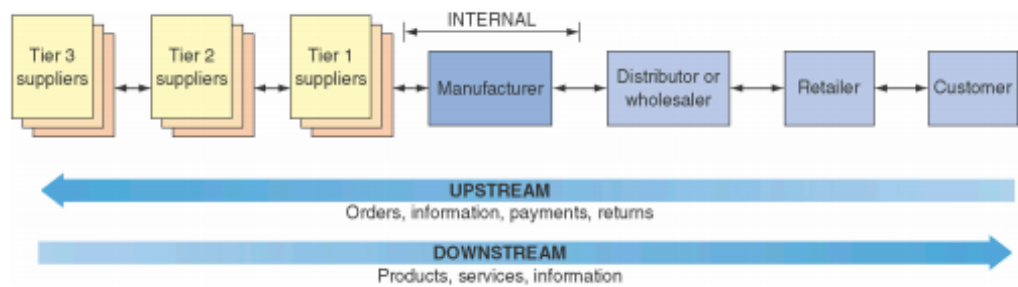
LECTURE 3: BUSINESS INFORMATION SYSTEMS

- Core information systems: ERP, CRM, SCM
- **Enterprise Resource Planning**
 - ERP system is a set of computer program modules that attempts to integrate the different functional areas of the organisation
 - Programs: SAP, Oracle
 - An ERP is designed on the basis of best practice - the best way of performing a particular process
 - Key points:
 - Doesn't work for all businesses
 - Connects SCM and CRM → they are systems that are used in conjunction with
 - ERP helps to support customer interaction
 - Info can be seen by all relevant people
 - Assists communication process
 - Goal: Improve and streamline internal business processes
 - Provides information on:
 - Inventory
 - Customer preference
 - Human resources
 - Qualifications
 - Sales performance
- **Customer Relationship Management**



- Collects information on:
 - Customer preferences
 - Age groups etc.
- Manage and analyse customer interactions
- Advantages:
 - Profitability
 - Build relationships with customers
- Disadvantages:
 - Costs associated with implementation of software
- Goal: help acquire, enhance and retain customers
- **Supply Chain Management**
 - What is a supply chain → flow of materials, information, money and services from raw material to suppliers, to factories and warehouses, to the end customers

- Structure
 - **Upstream:** where sourcing procurement external suppliers occur
 - **Internal:** where packaging, assembly or manufacturing takes place
 - **Downstream:** where distribution takes place
- Components
 - Flows in the supply chain
 - Materials flows
 - Information flows
 - Financial flows
 - Tiers of suppliers



- Goal: improve coordination between participants of the supply chain
 - Participants → suppliers, distributors, manufacturers etc.