

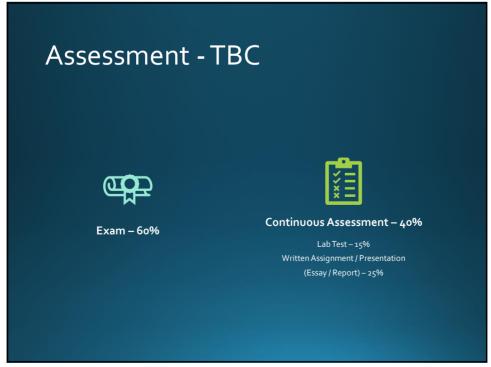
# High Level Course Aim



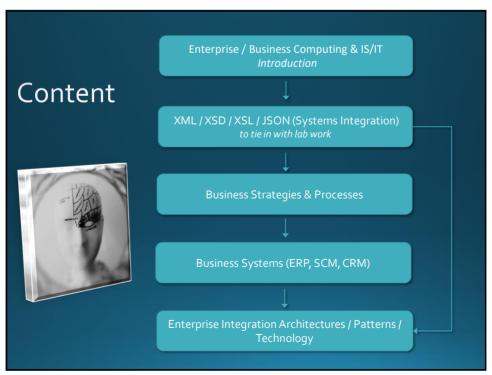
The aim of this module is to provide students with knowledge of the purpose, design and context of enterprise architectures and systems within an organisation.

# Classes per week -> Lectures - 2 x 1hr sessions (Tue/Thur) -> Labs - 1 x 2hr sessions (2 groups - Tue/Thur) Brightspace (Module Id: CMPU4025) -> Enterprise Sys Inf. and Arch. CMPU4025: 2022-23 -> "Ciaran Cawley - TU856/TU858 Stage 4 Semester 2" -> Lecture Slides -> Lab Sheets -> Information / Announcements / Communication -> Extra Material -> Assignments

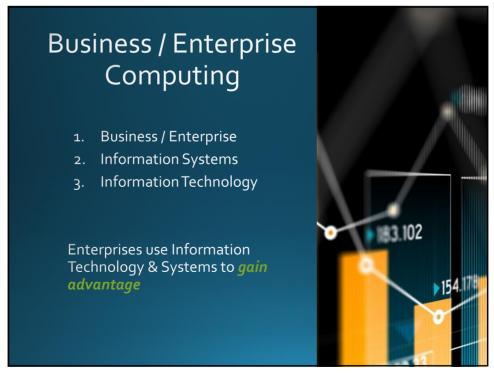
4



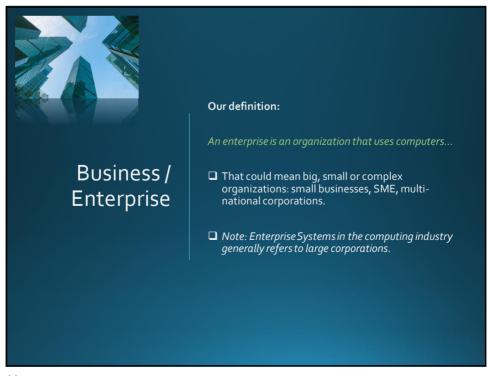




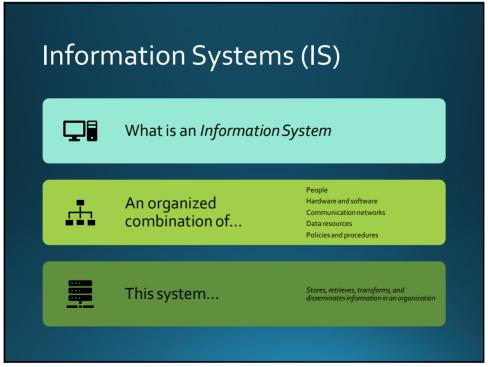






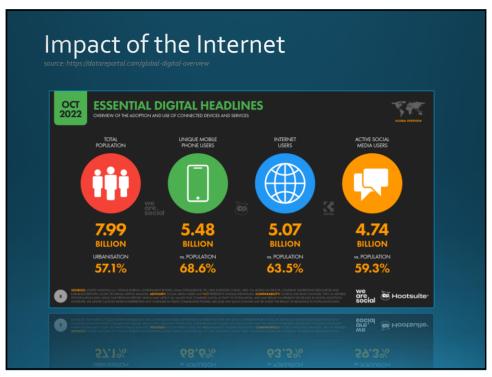


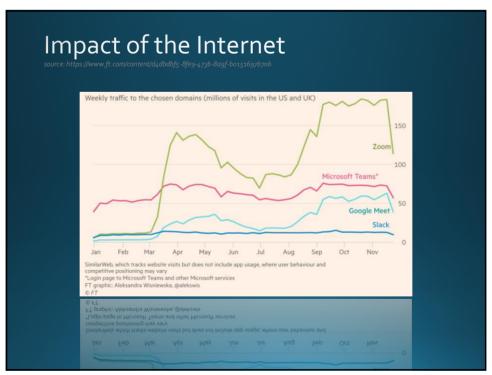






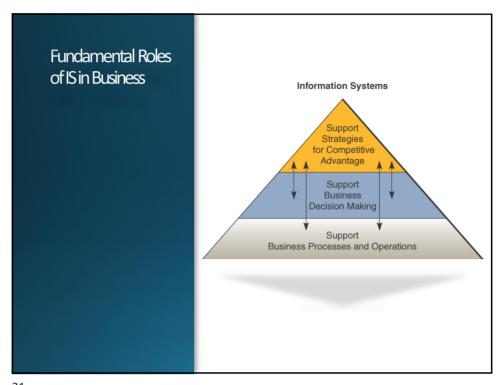




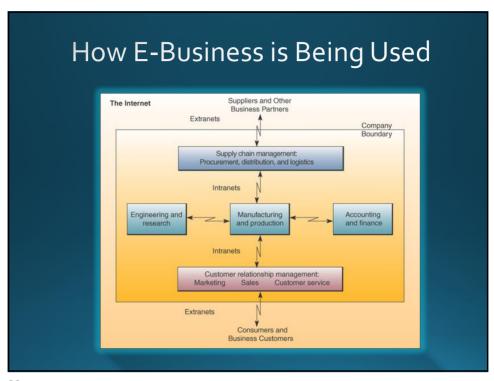


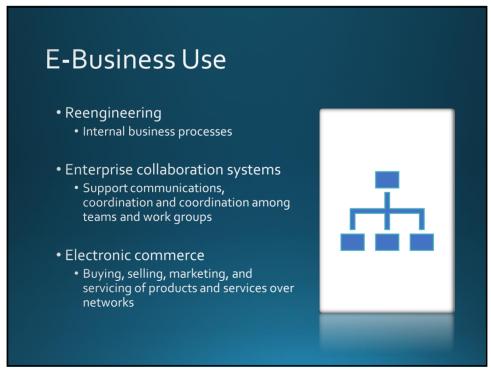












Types of Information Systems

25

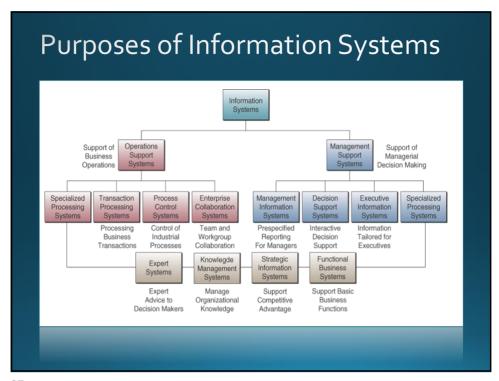
## Types of Information Systems

### **Operations Support Systems**

- Efficiently process business transactions
- Control industrial processes
- Support communication and collaboration
- Update corporate databases

### Management Support Systems

- Provide information as reports and displays
- Give direct computer support to managers during decision-making





## Types of Management Support Systems

### Management Information Systems (MIS)

- Reports and displays
- Example: daily sales analysis reports

### **Decision Support Systems (DSS)**

- Interactive and ad hoc support
- Example: a what-if analysis to determine where to spend advertising funds

### **Executive Information Systems (EIS)**

- Critical information for executives and managers
- Example: easy access to actions of competitors



29

# Other Information Systems

### **Expert Systems**

- Provide expert advice
- Example: credit application advisor

### **Knowledge Management Systems**

- Support creation, organization, and dissemination of business knowledge throughout company
- Example: intranet access to best business practices
- Strategic Information Systems
  - Help get a strategic advantage over competitor
  - Example: online shipment tracking
- Functional Business Systems
  - Focus on operational and managerial applications of basic business functions
  - Examples: accounting, finance, or marketing









# IS Function & Activity

# The IS Function

A major functional area of business

An important contributor to operational efficiency, employee productivity, morale, customer service and satisfaction

A major source of information and support for decision making

A vital ingredient in developing competitive products and services in the global marketplace

A key component of today's networked business

35

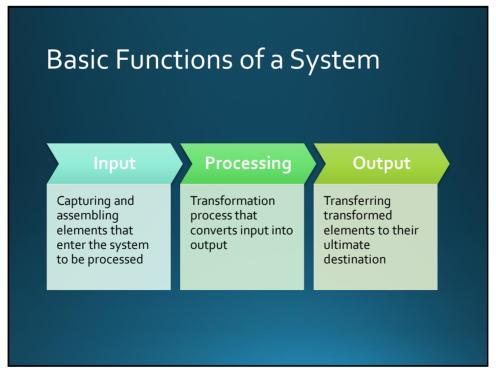
# System Concepts

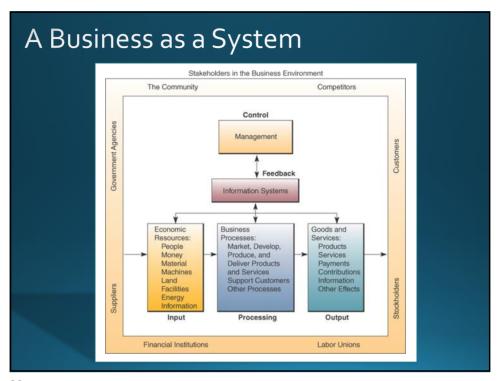
System concepts help us understand...

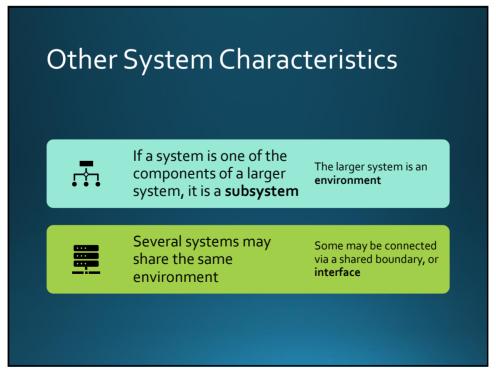
- Technology: hardware, software, data management, telecommunications networks
- Applications: to support interconnected information systems
- Development: developing ways to use information technology includes designing the basic components of information systems
- Management: emphasizes the quality, strategic business value, and security of an organization's information systems

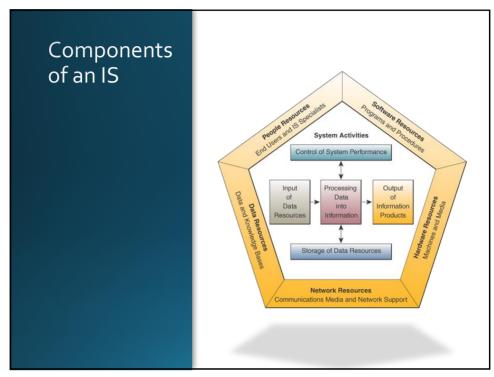


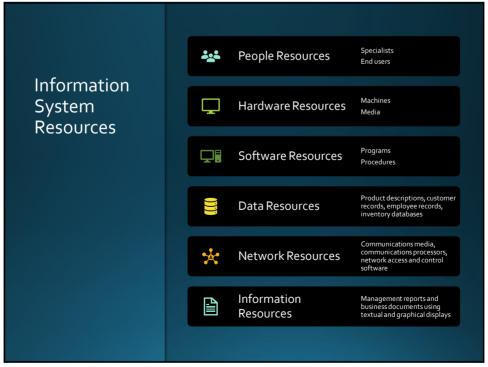




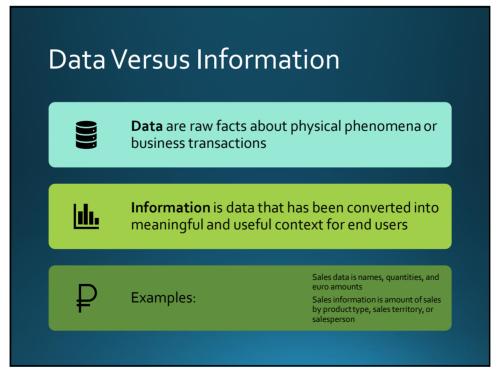












# Recognising Information Systems

Business professionals should be able to look at an information system and identify...

- ✓ The people, hardware, software, data, and network resources they use
- ✓ The type of information products they produce

