Planning & system installation

IB Computer Science

HL Topics 1-7, D1-4

1: System design

2: Computer Organisation

3: Networks

4: Computational thinking

5: Abstract data structures

6: Resource management

7: Control

D: OOP

HL & SL 1.1 Overview

Planning and system installation

1.1.1 Identify the context for which a new system is planned.

1.1.2 Describe the need for change management

1.1.3 Outline compatibility issues resulting from situations including legacy systems or business mergers.

1.1.4 Compare the implementation of systems using a client's hardware with hosting systems remotely

1.1.5 Evaluate alternative installation processes

1.1.6 Discuss problems that may arise as a part of data migration

1.1.7 Suggest various types of testing

User focus

1.1.8 Describe the importance of user documentation

1.1.9 Evaluate different methods of providing user documentation

1.1.10 Evaluate different methods of delivering user training

System backup

1.1.11 Identify a range of causes of data loss

1.1.12 Outline the consequences of data loss in a specified situation

1.1.13 Describe a range of methods that can be used to prevent data loss

Software deployment

1.1.14 Describe strategies for managing releases and updates

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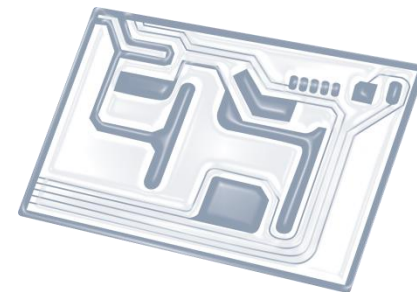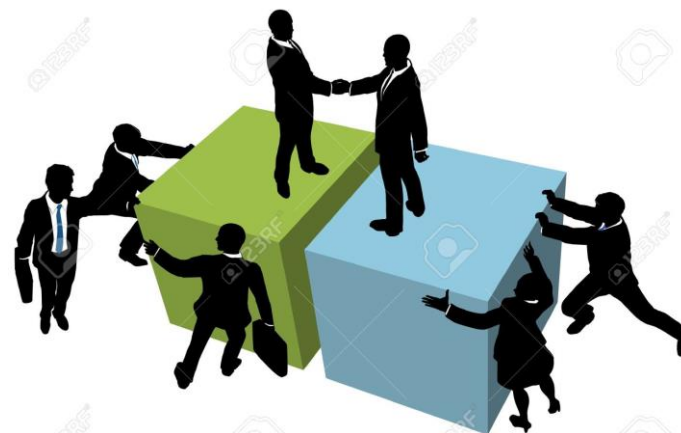
6: Resource management

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Topic 1.1.3

Outline **compatibility issues** resulting from situations including **legacy systems** or business **mergers**

Legacy system

In computing, a legacy system is an old method, technology, computer system, or application program, that may or may not be supported/available for purchase any more.

"Famous" legacy systems

- **Hardware:**
  - Floppy disks
  - Parallel printer cables
  - Connections like PS2

- **Software:**
  - Windows XP
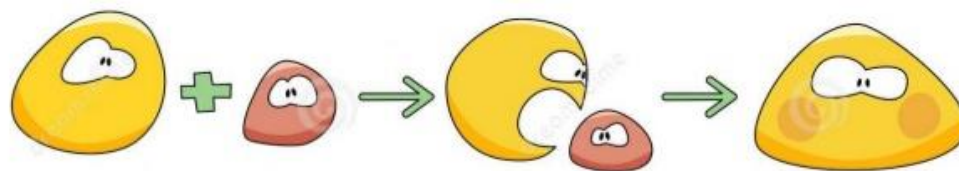 - Movie Maker
  - Industry specific software

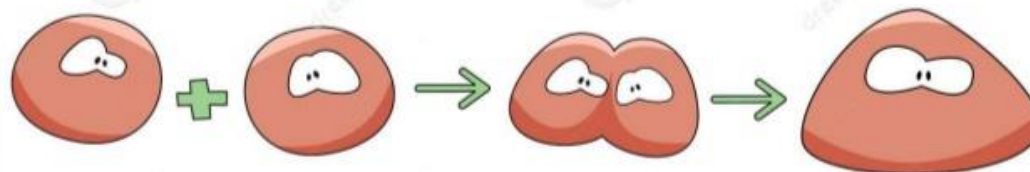- **Computer systems:**
  - Amiga
  - Commodore 64

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Windows® Movie Maker

Commodore 64 MicroComputer

Merger

A combination of two entities or more, especially companies, into one.
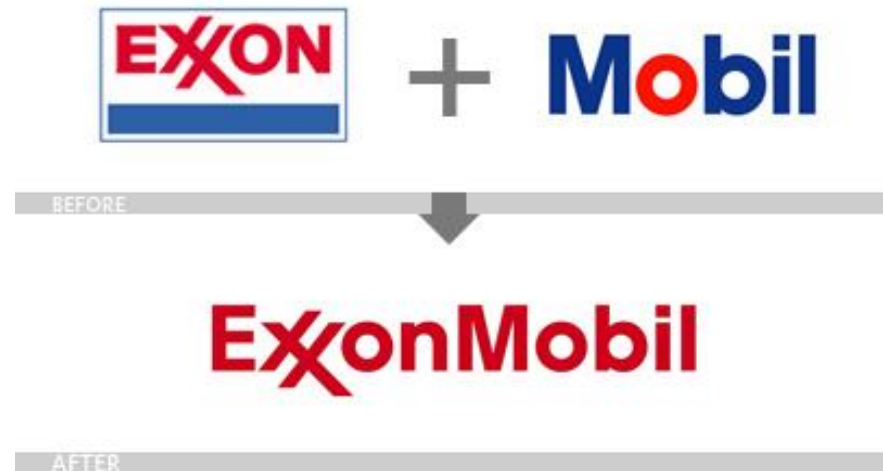

Acquisition

Merger

"Famous" mergers

- Vodafone & Mannesmann

- American Online (AOL) and Time Warner

- Pfizer and Warner-Lambert

- ABC and Disney

- Exxon and Mobile

Mergers can be VERY tricky

If companies/organisations merge across international borders, there may be **several issues**, such as:

- Issues of software compatibility

- Language differences

- Time zone differences

- Workforce cultural differences

Warning: Always discuss these in terms of Computer Science (don't drift off into Economics/Business/ToK/Sociology…)