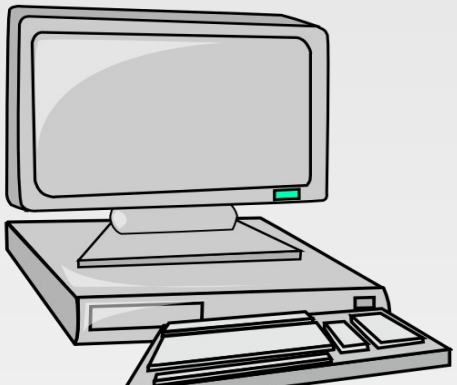
Information and Communication Technology:

INFORMATION

(the extended meaning)



presented by: **Rhiza S. Sadjad**

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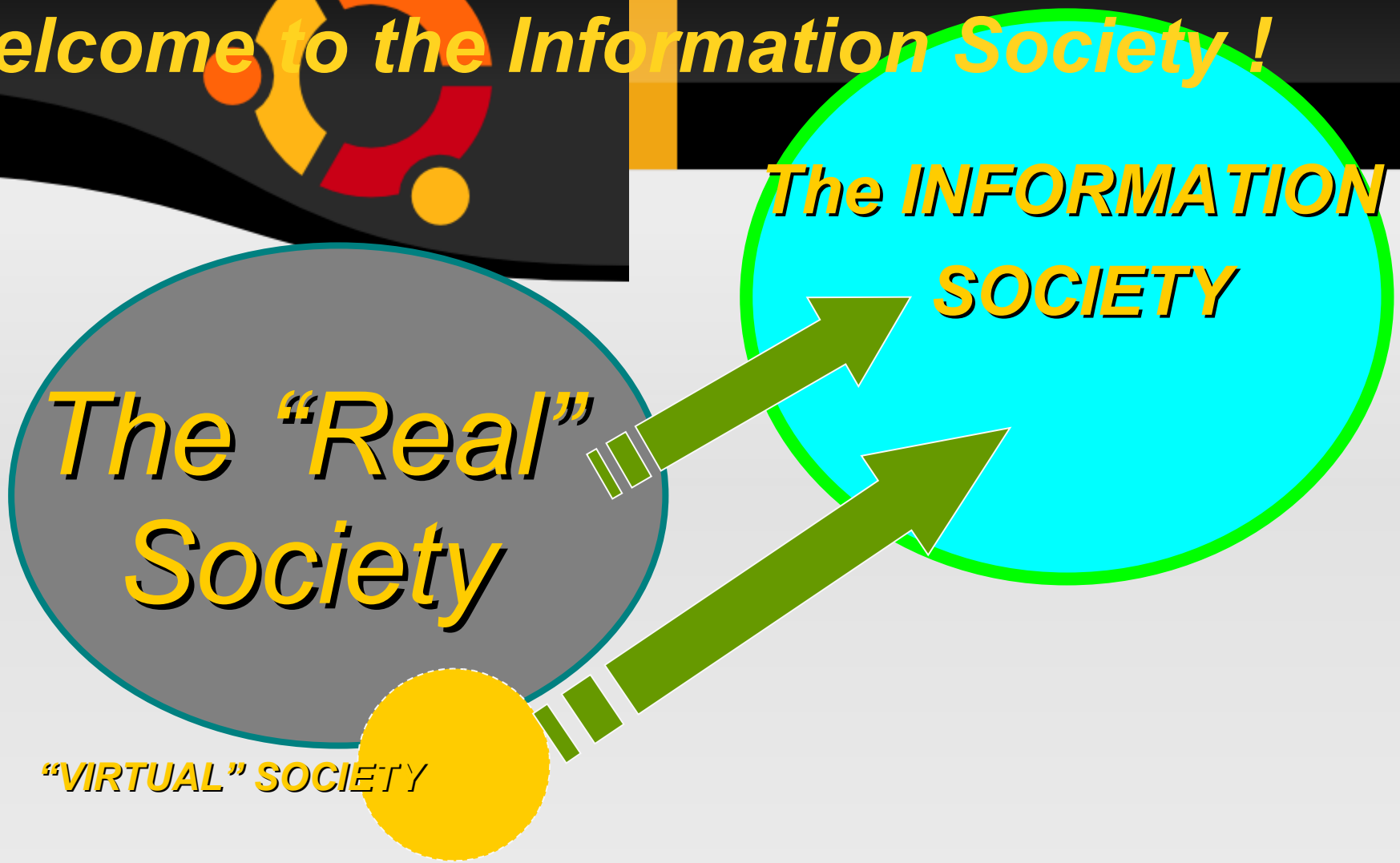
INFORMATION
(the extended meaning)

- (*more about*) The Information Society
- The Information Workers
- The Information System

Welcome to the Information Society !

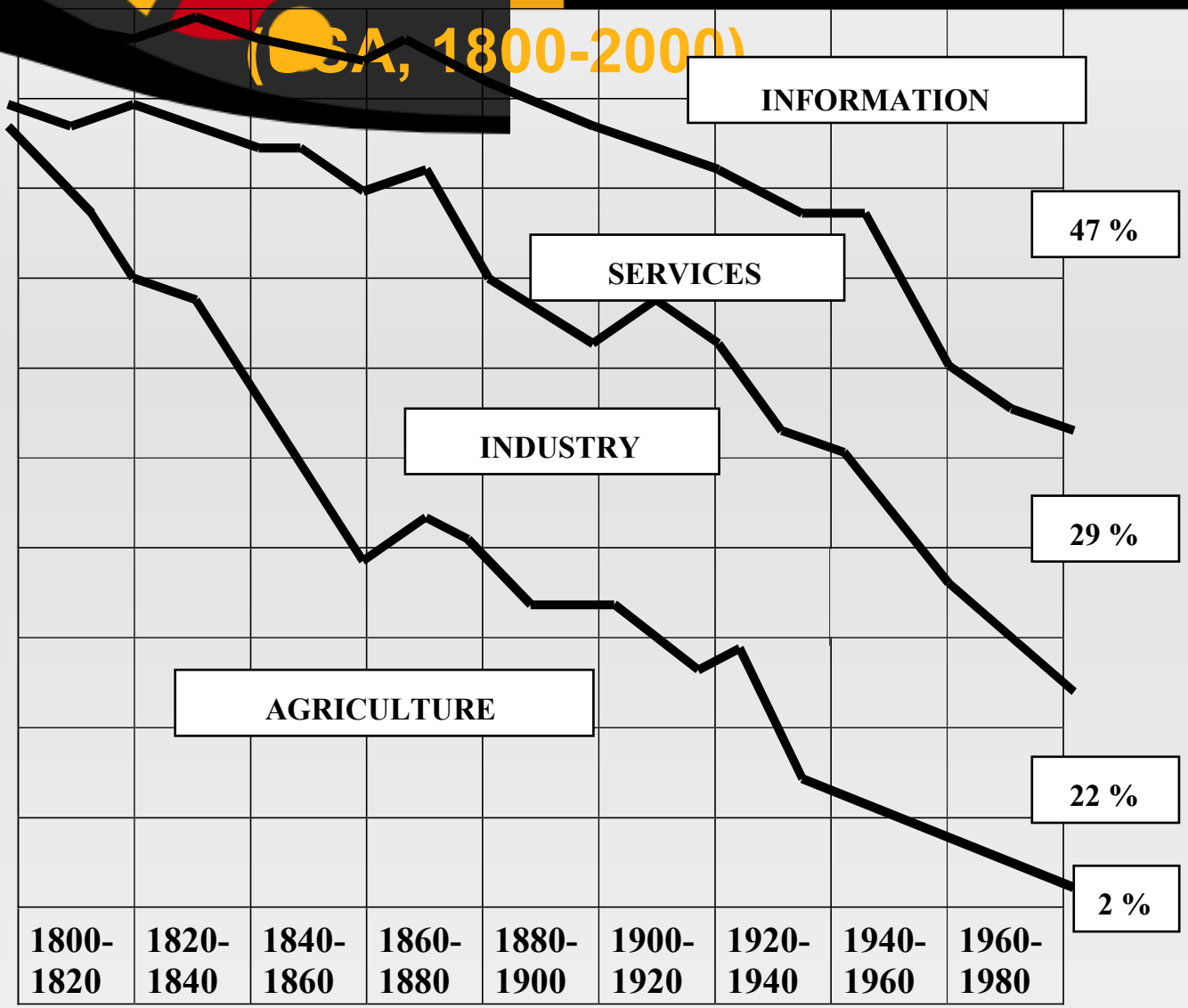


*An **information society** is a nation in which a **majority** of the labor force is composed of **information workers**, and which information is the **most important element**.* (Rogers, [**1986**], page 10)

The Information Society

Work Force Composition

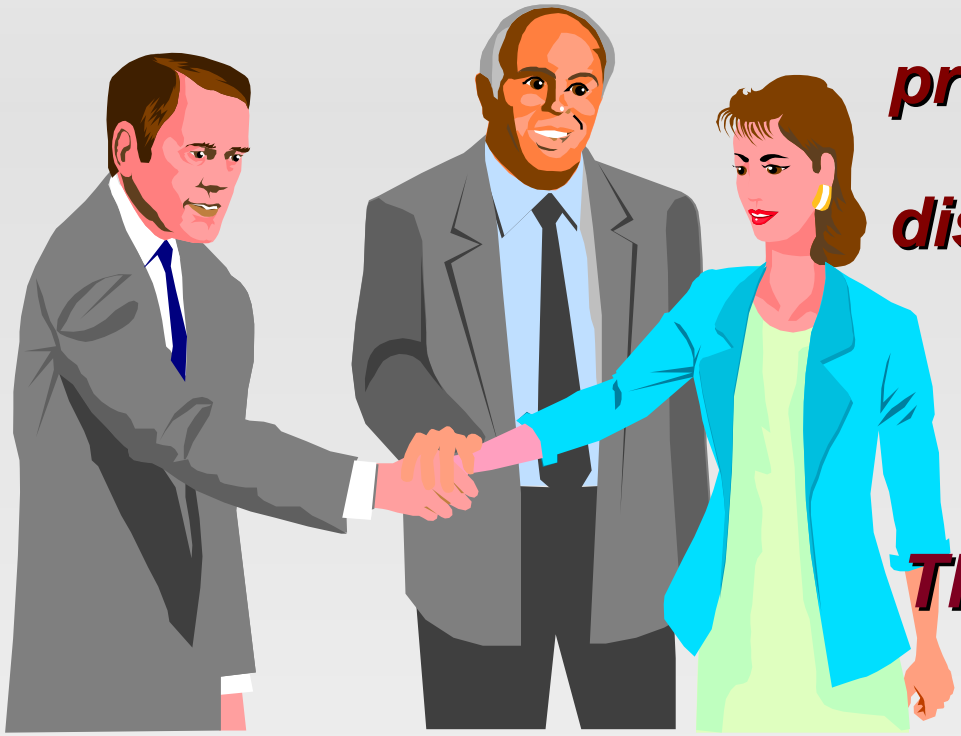
(USA, 1800-2000)



(Source: Everett M. Rogers, [1986], *Communication Technology*, page 11)

The Information Workers:

Those who make their living by:



producing .....

processing.....

distributing.....

INFORMATION

and

producing

The Information Technology

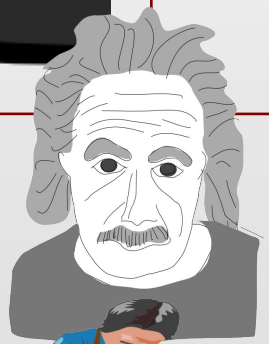
(*Rogers*, [**1986**], *page 10*)

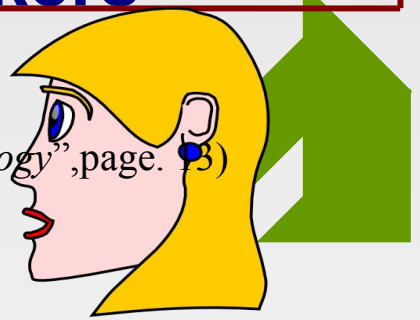
..... teachers, lecturers, researchers, academicians ....., manager, secretary

CIO

Main type of employment

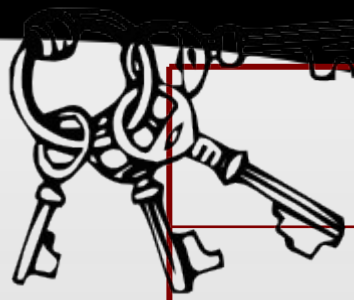
Society	Profession
Agricultural	FARMERS
Industrial	FACTORY Workers
Information	INFORMATION Workers



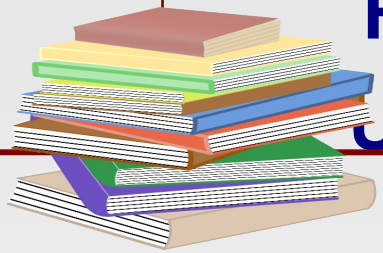


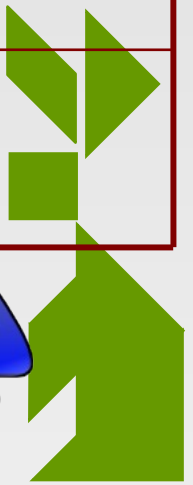
(Source: Everett M. Rogers, [**1986**], "*Communi[illegible]on Technology*",page. 13)

Key Social Institutions



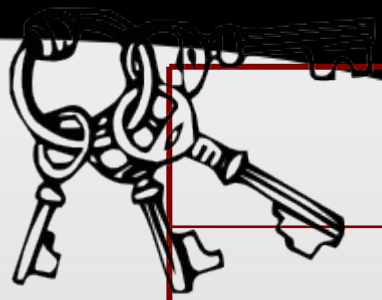
Society	Key Social Institution
Agricultural	FARM
Industrial	FACTORY
Information	RESEARCH UNIVERSITY



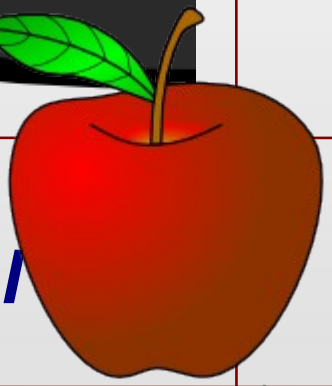


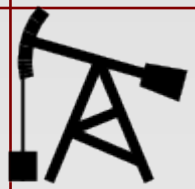
(Source: Everett M. Rogers, [**1986**], "*Communication Technology*",page. 13)

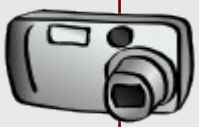
Key element/basic resource



Society	Key element
Agricultural	FOOD
Industrial	ENERGY
Information	INFORMATION



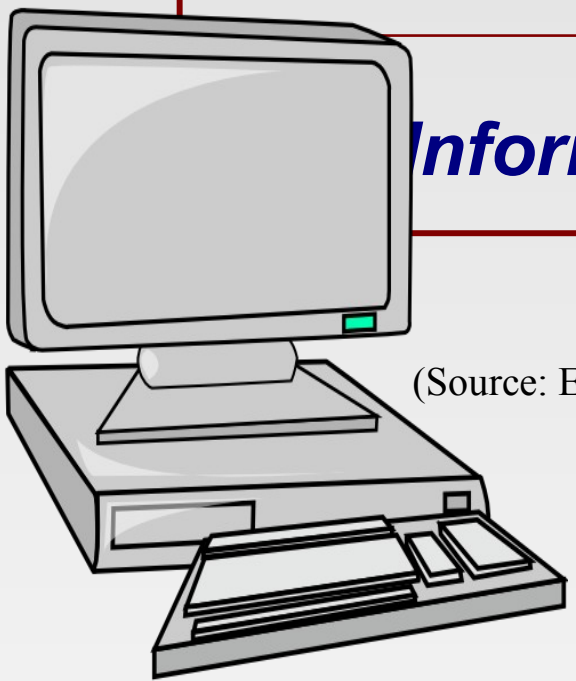




(Sumber: Everett M. Rogers, [**1986**], "*Communication Technology*", page. 13)

Basic Technology

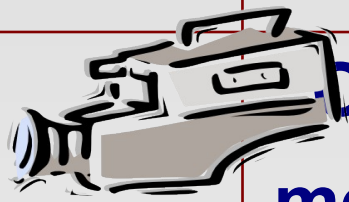
Society	Technology
Agricultural	Manual Labor
Industrial	Steam Engine
Information	Computer and Electronics

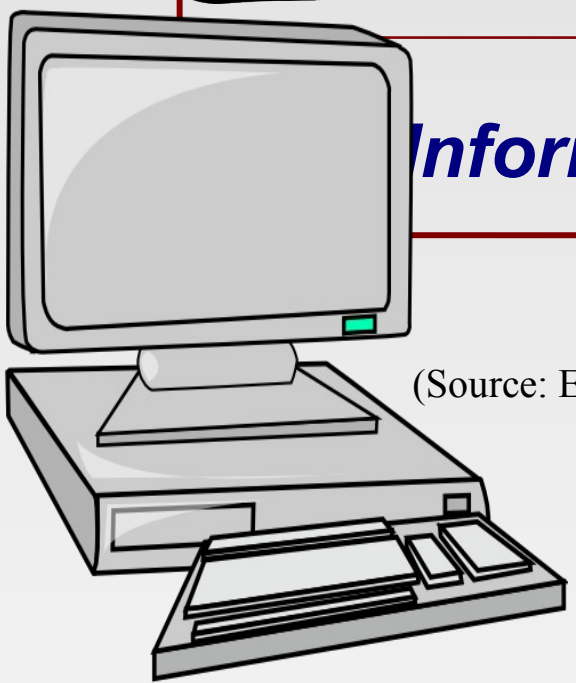


(Source: Everett M. Rogers, [**1986**], "*Communication Technology*", page. 13)

Nature of Mass Communication

Society	Nature
Agricultural	One way print media (publishing)
Industrial	One way electronic media (broadcasting)
Information	Interactive, de-massified





(Source: Everett M. Rogers, [**1986**], "*Communication Technology*", page. 13)

Another extended meaning of INFORMATION .....

- The INFORMATION SYSTEM

INFORMATION SYSTEM

FRONT DOOR .....!

e-procurement HRM Financial Asset TOP Office etc. e-marketting

MANAGEMENT

Public Relations

INFORMATION

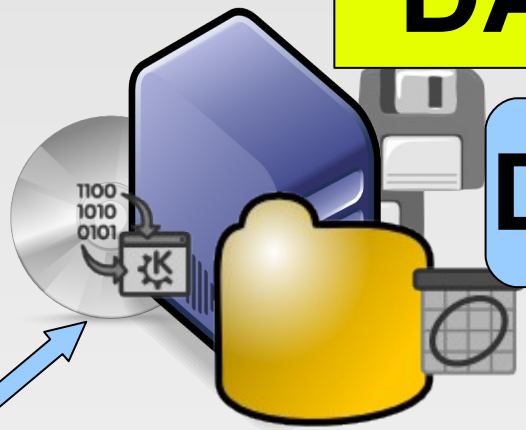
- The INFORMATION SYSTEM

BACK DOOR!

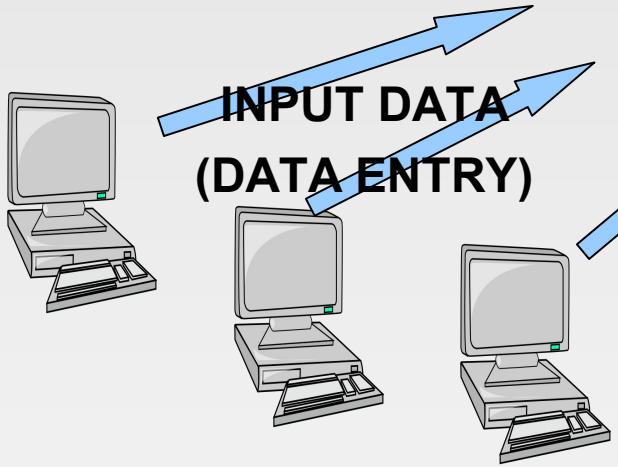
INFORMATION

The INFORMATION SYSTEM

DATA

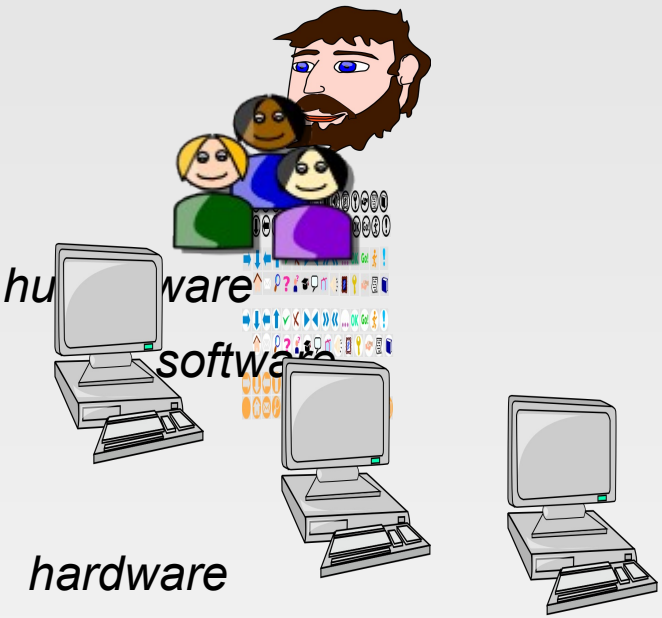


DATA-BASE

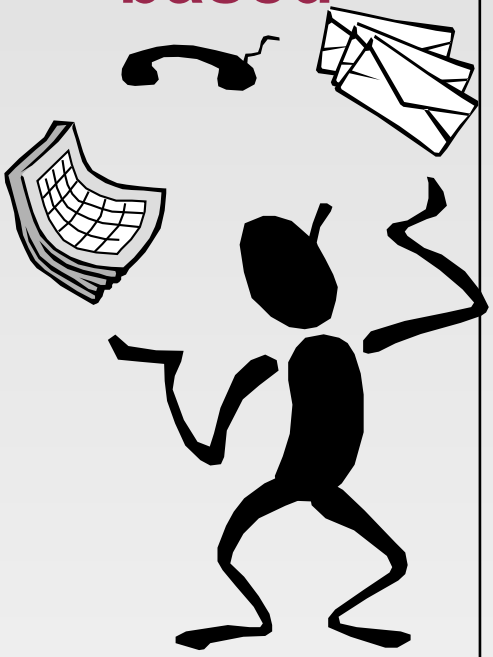
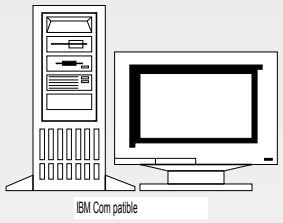


The Levels of INFORMATION SYSTEMS

- MANUAL-based INFORMATION SYSTEMS
- COMPUTER-based INFORMATION SYSTEMS
- NETWORK-based INFORMATION SYSTEMS

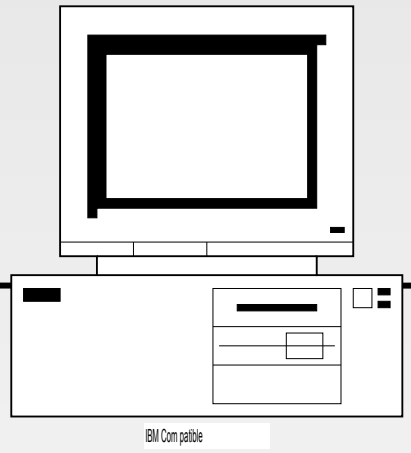


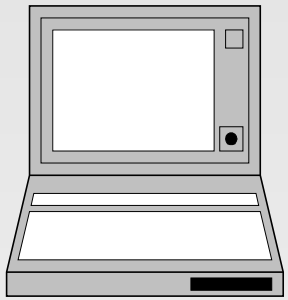
Levels of Information Systems (1)

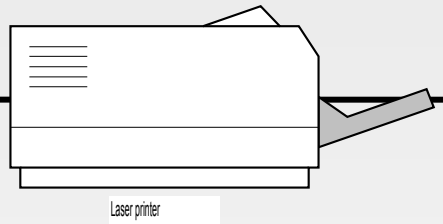
LEVEL	Hardware	Software	Characteristics
MANUAL-based 	Pencils, ballpoints, pens, notebooks, typewriters, computers 	Non-Available, onlly “generic”, such as word processors, *spread-sheet*, etc.	Rely on human capabilities, such as memory, accountability, etc.

Levels of Information Systems (2)

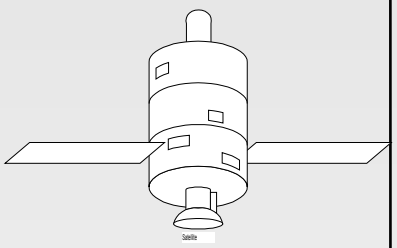
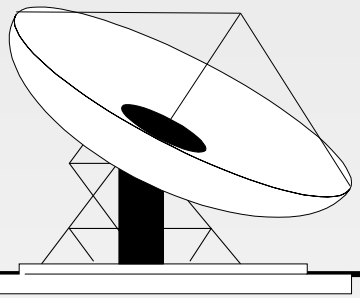
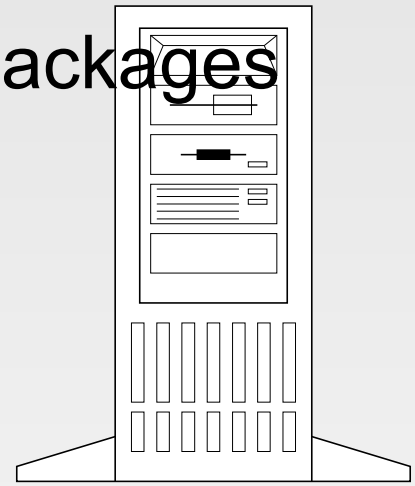
Level	Hardware	Software	Characteristics
COMPUTER-based	COMPUTER generally PCs	Specifically developed application software package, for example: *Academic Information Systems*, etc.	Most tasks that are relying on human capabilities have been taken over by computers programs.


IBM Com patible


Laptop com puter


Laser printer

Levels of Information Systems (3)

Level	Hardware	Software	Characteristics
NETWORK-based (*on-line*)  	COMPUTER(PC, Workstation, Server), network components (NIC, HUB, BRIDGE, SWITCH), Tele-communication Systems	Network-based Application software packages 	*Resource sharing*, accessible from other networks.

SELESAI
The END
The END
THE END
Selamat mengikuti
KULIAH ini
dengan SEKSAMA