

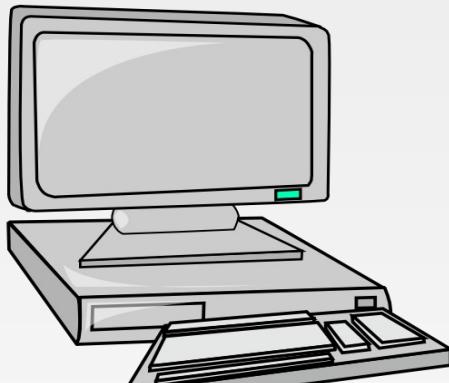
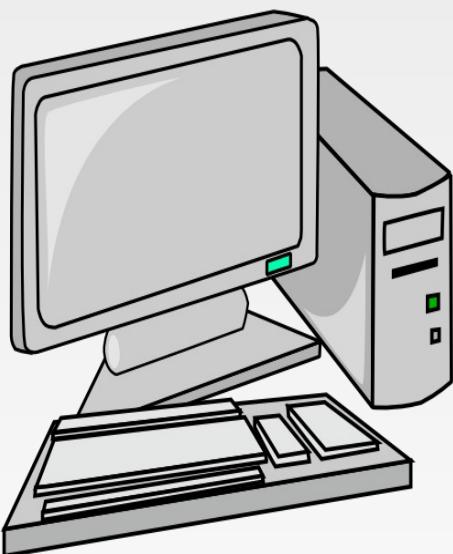


Information and Communication Technology:

INFORMATION

(the extended meaning)

FORMAT



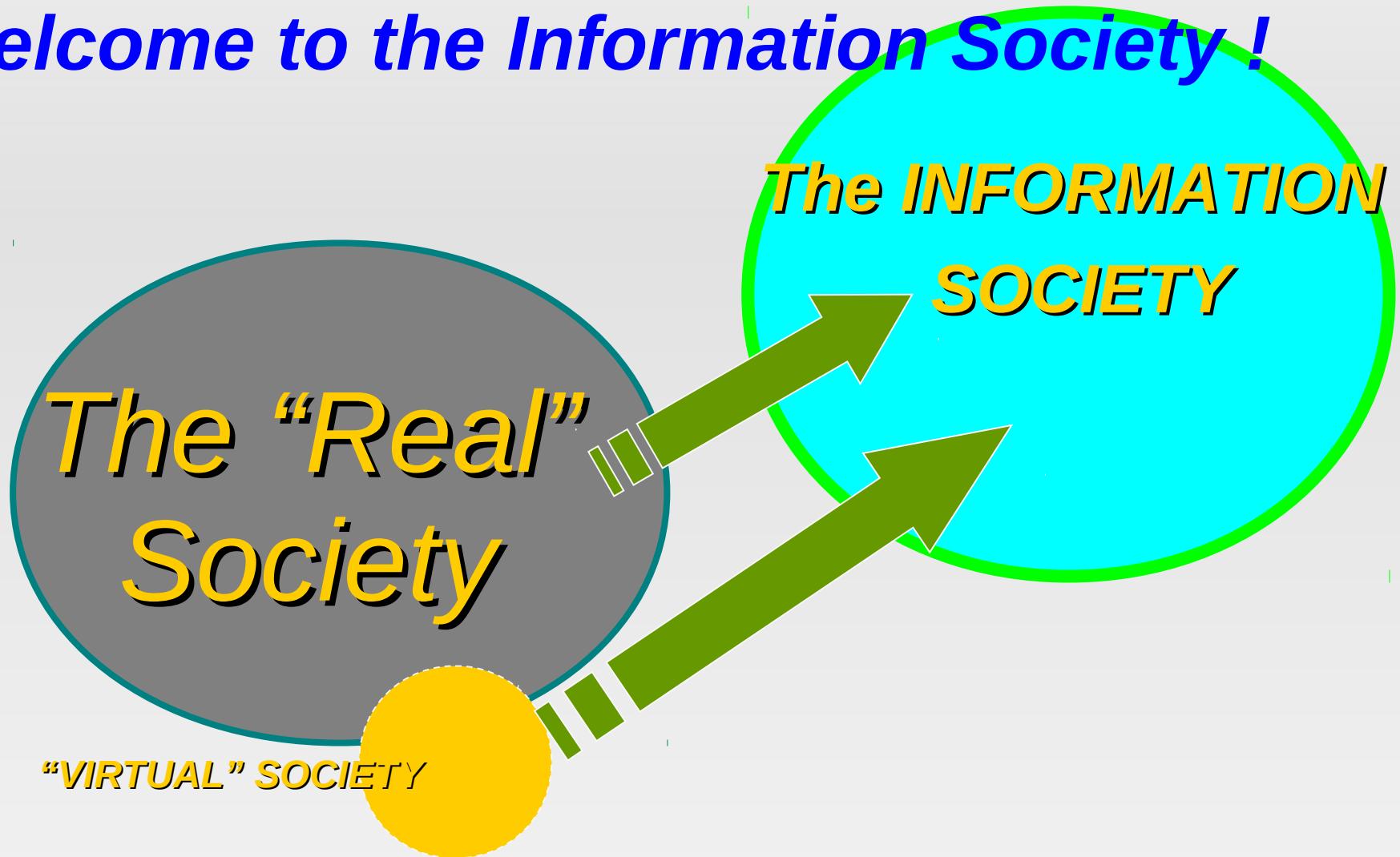
presented by: **Rhiza S. Sadjad**

rhiza@unhas.ac.id <http://www.unhas.ac.id/rhiza/>

INFORMATION (the extended meaning)

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

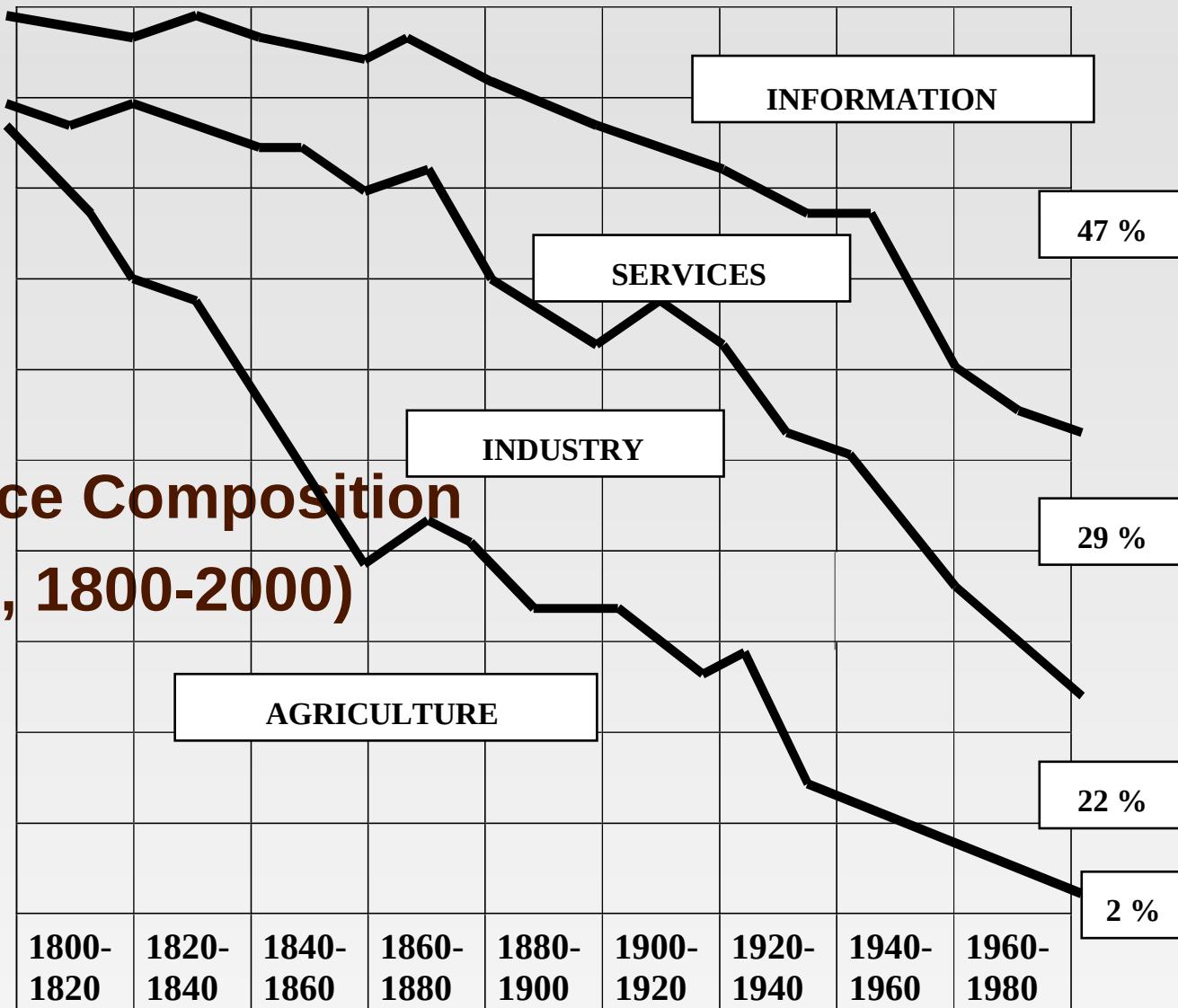
Welcome to the Information Society !



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.....

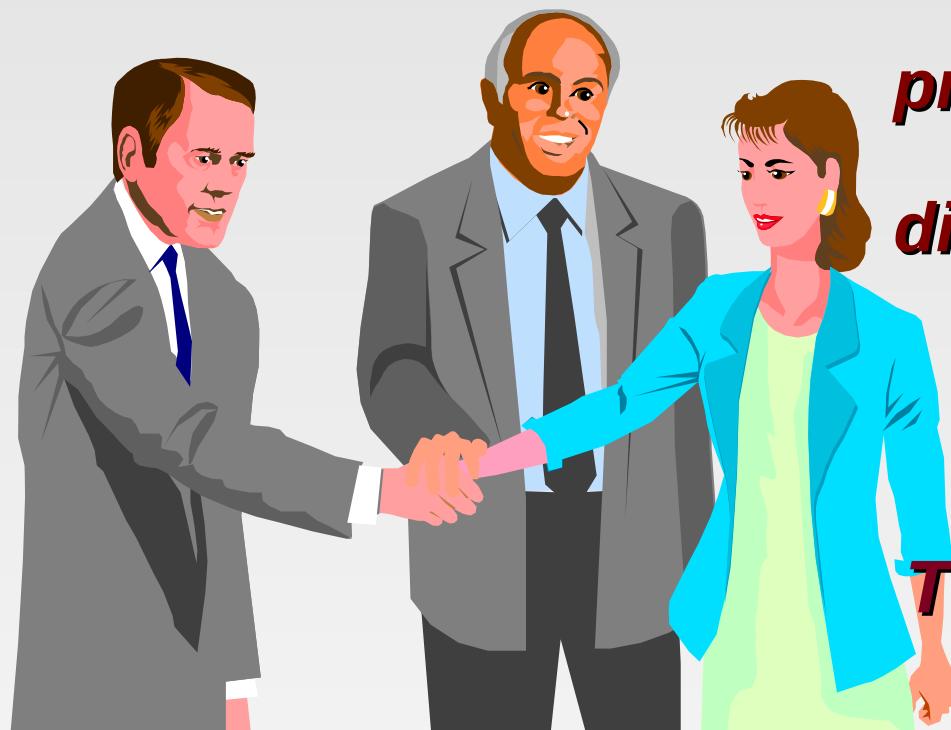
INFORMATION

and

producing

The Information Technology

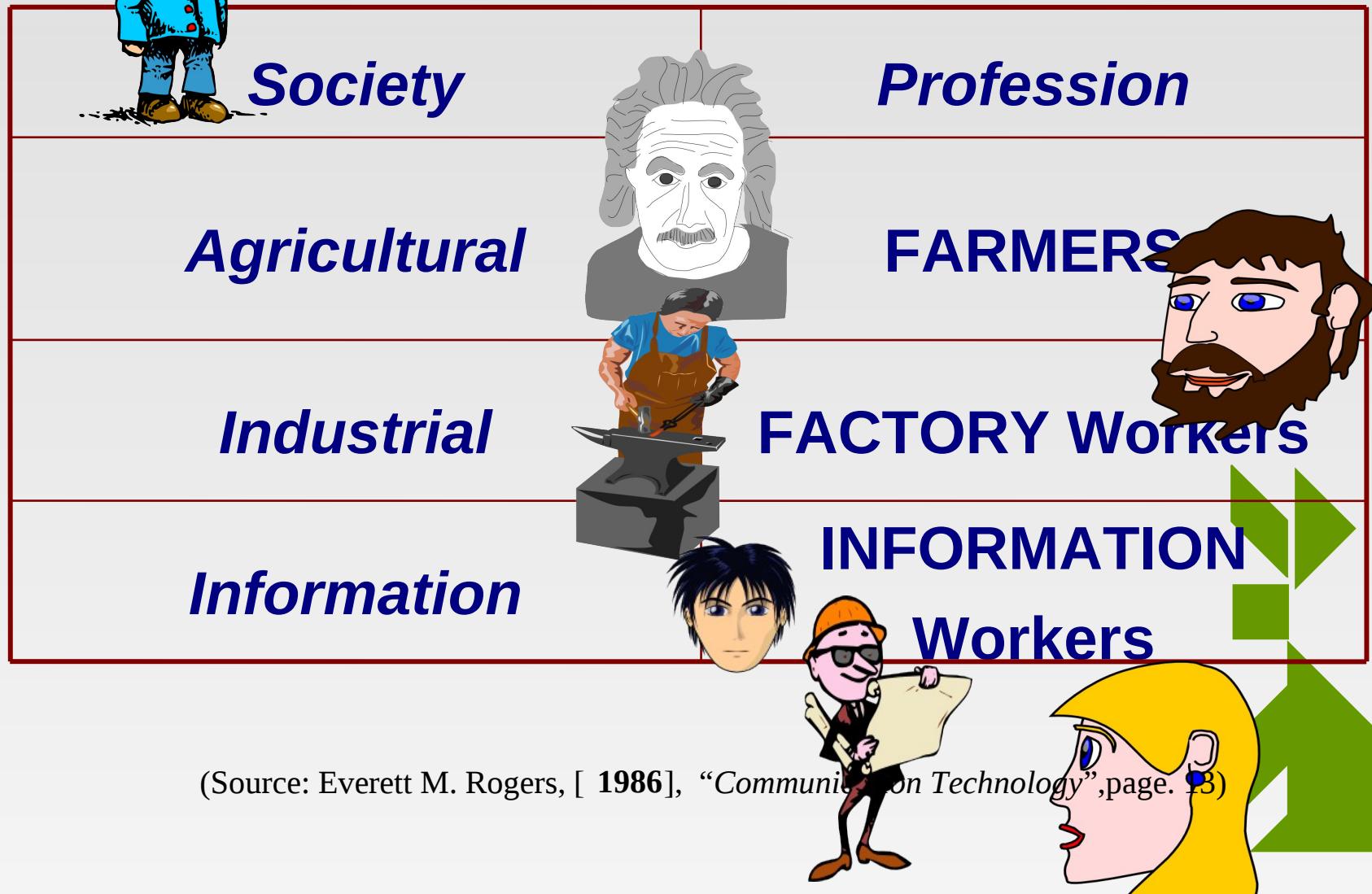
(Rogers, [1986], page 10)



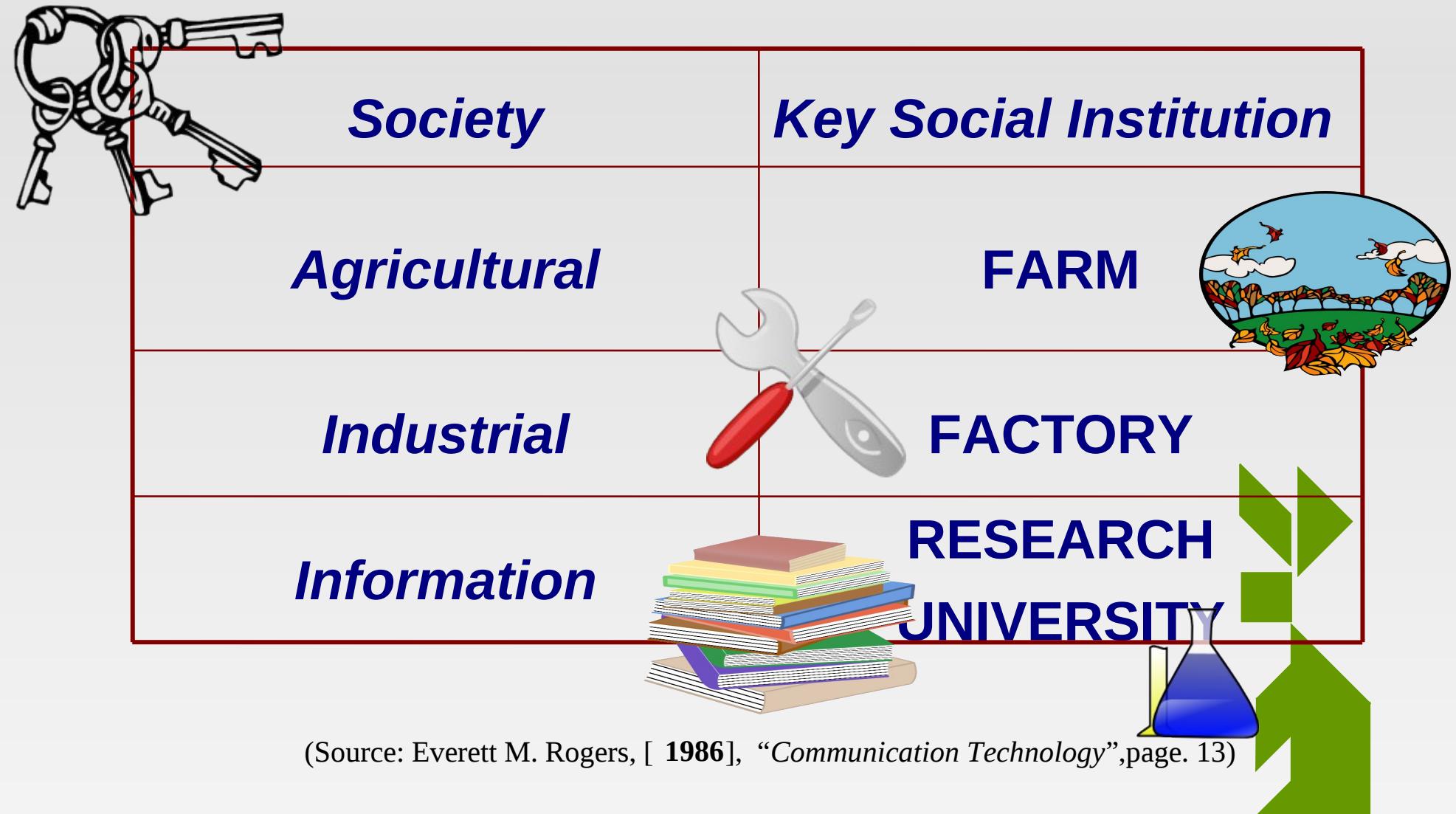
***..... teachers, lecturers, researchers,
academicians, manager, secretary***

CIO

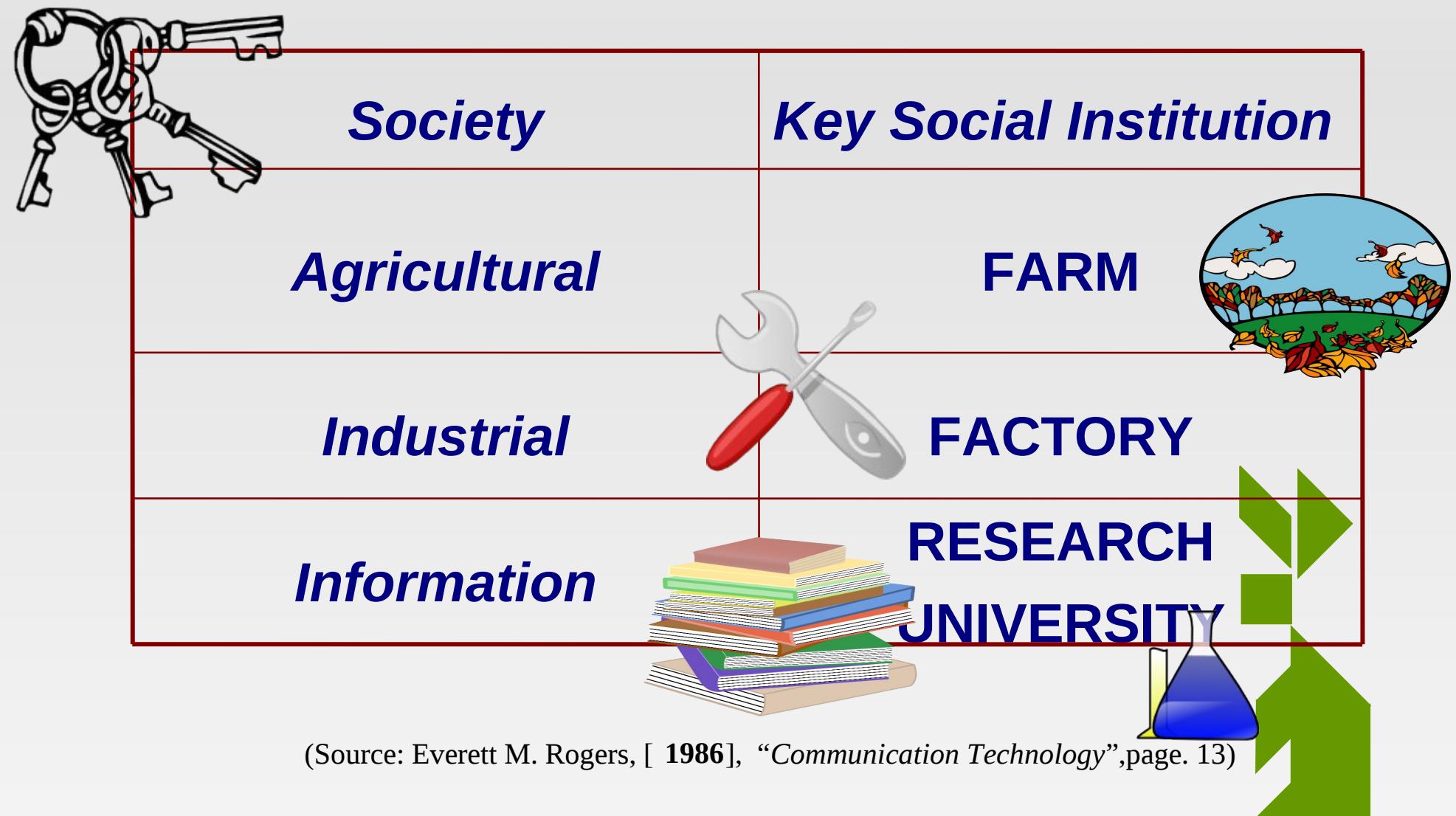
Main type of employment



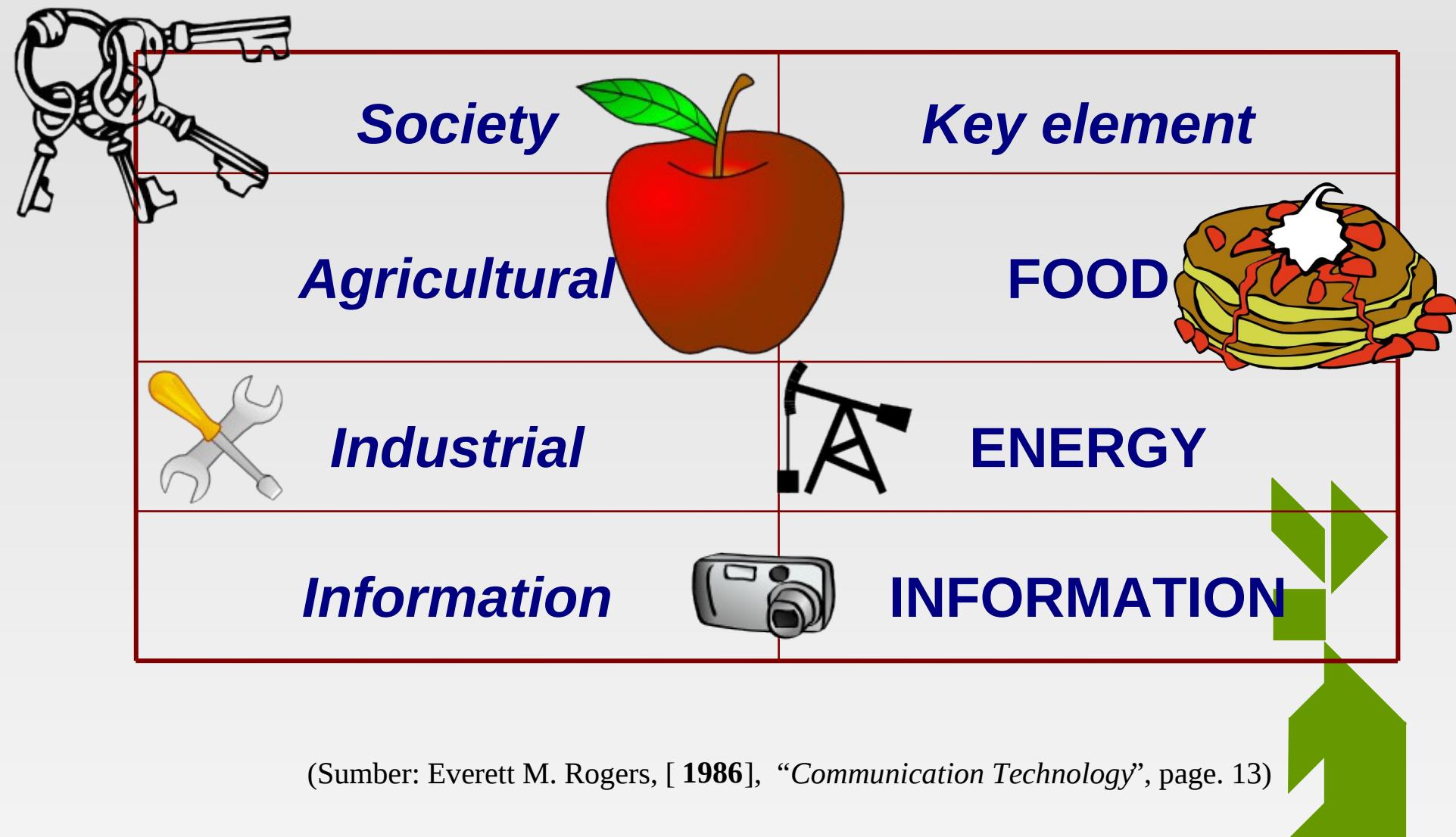
Key Social Institutions



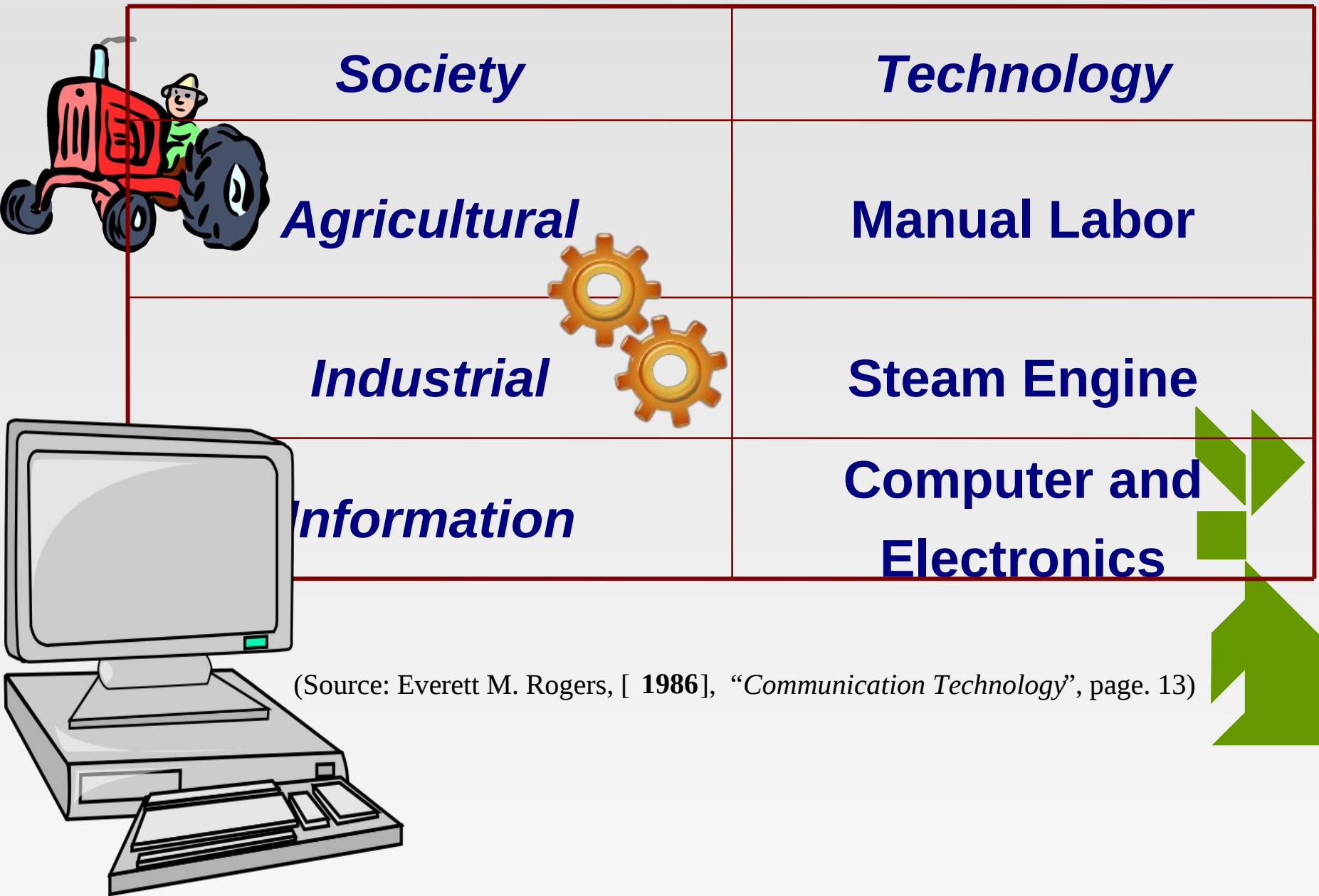
Key Social Institutions



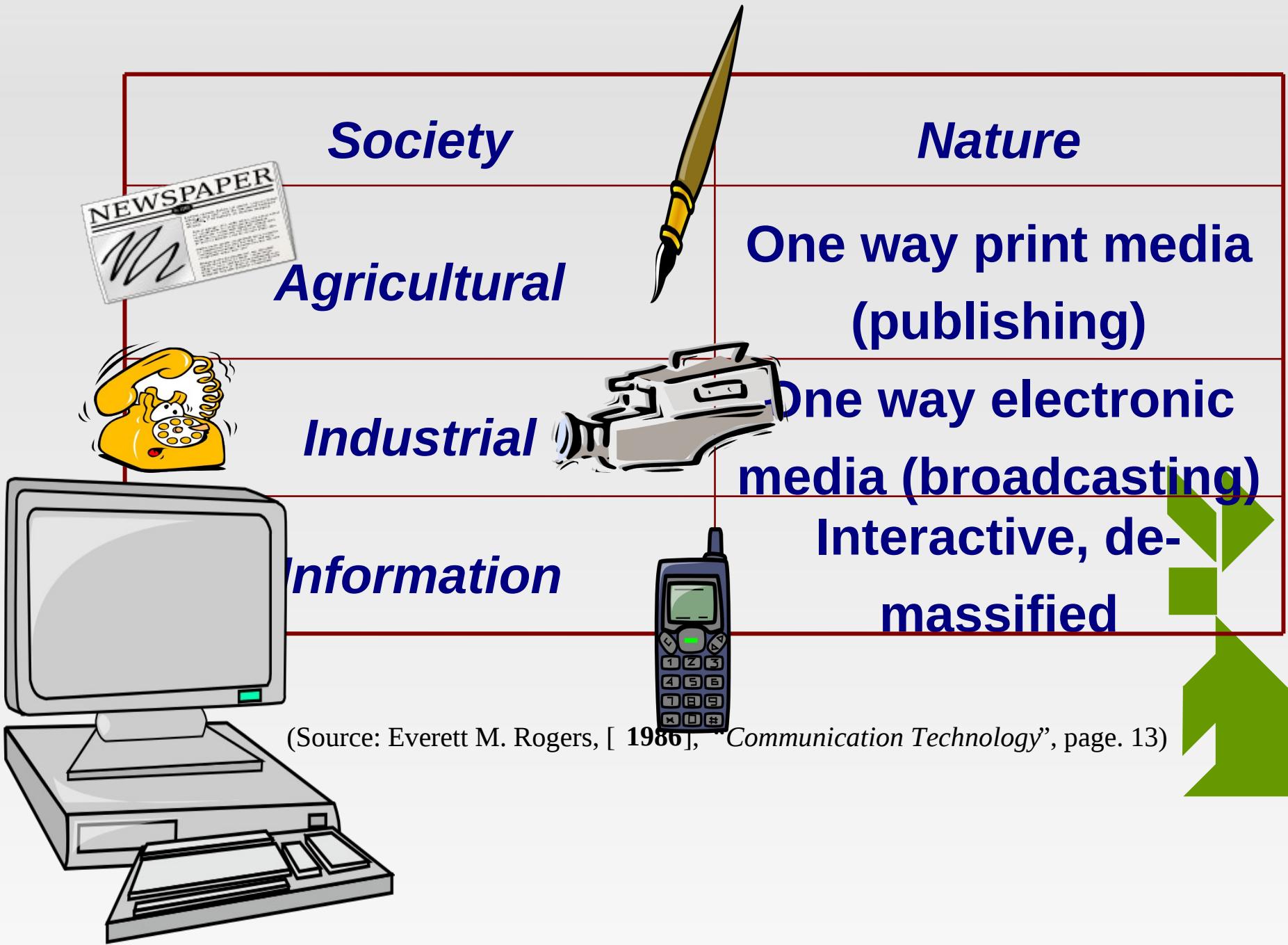
Key element/basic resource



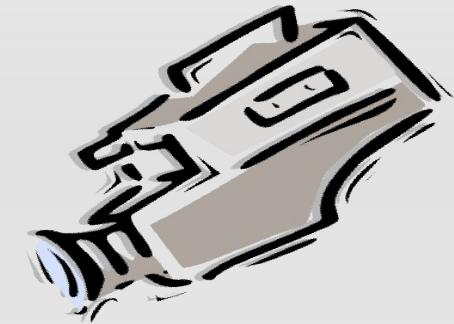
Basic Technology



Nature of Mass Communication



Another extended meaning of INFORMATION

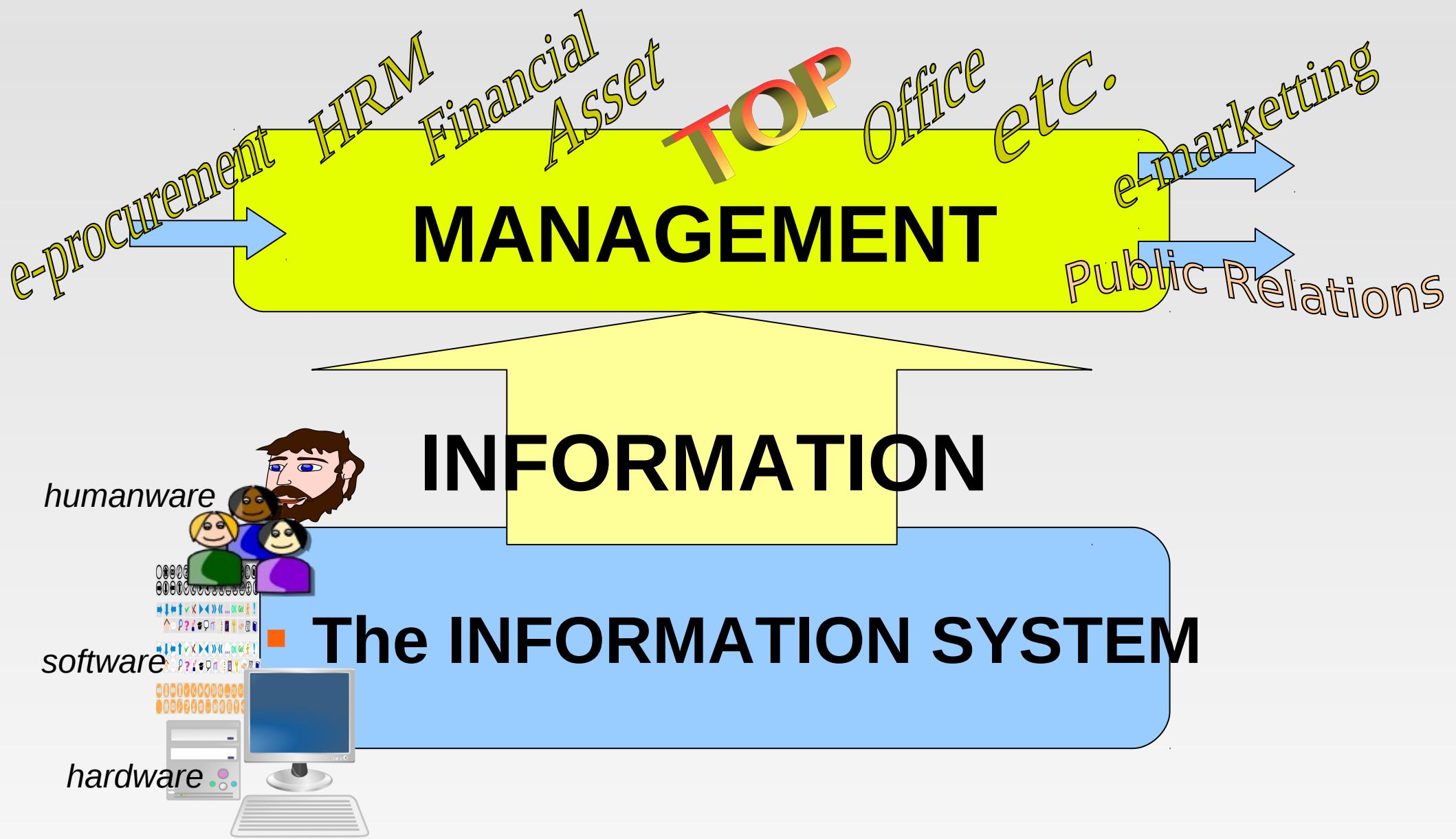


▪ The INFORMATION SYSTEM

INFORMATION SYSTEM



FRONT DOOR



BACK DOOR!

INFORMATION

humanware

software



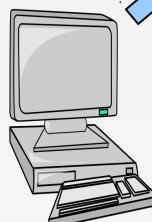
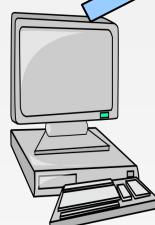
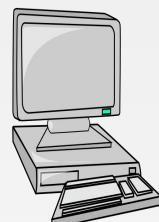
hardware

The INFORMATION SYSTEM

DATA

DATA-BASE

**INPUT DATA
(DATA ENTRY)**

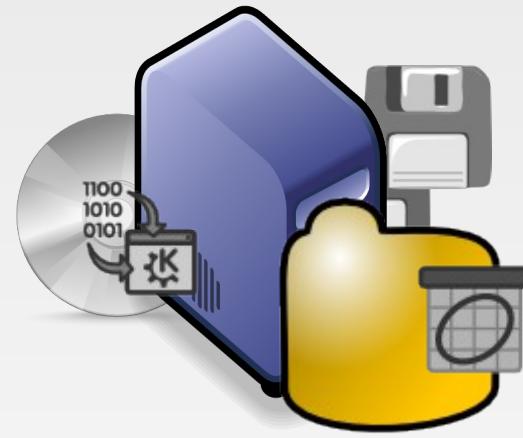
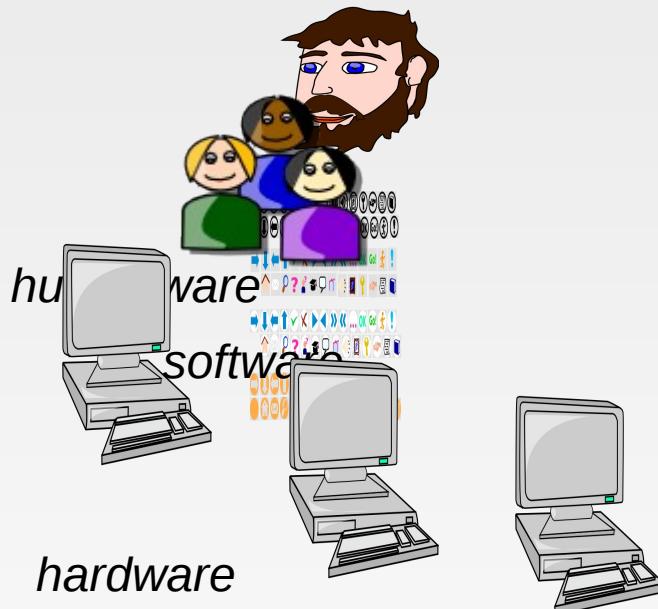


DATA-BASE

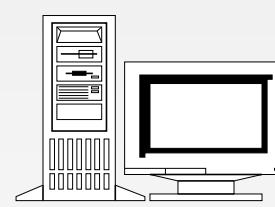
The Levels of INFORMATION SYSTEMS

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

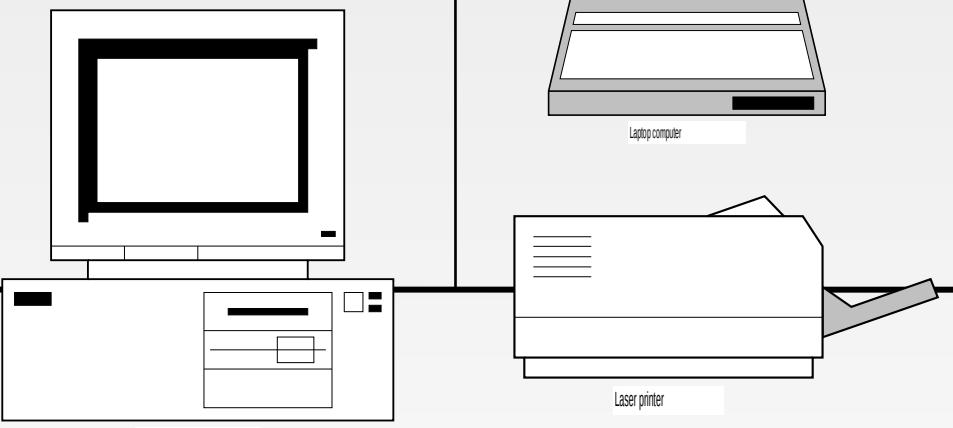
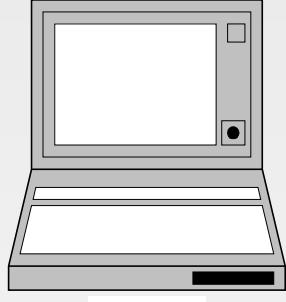
MANUAL
COMPUTER
NETWORK



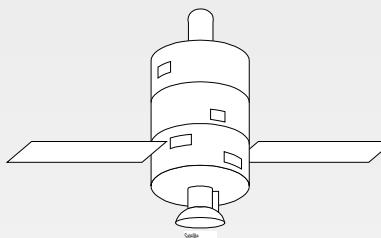
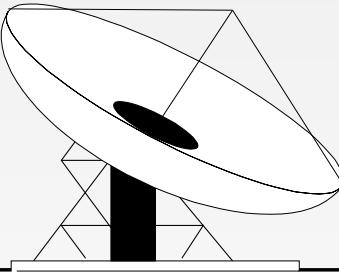
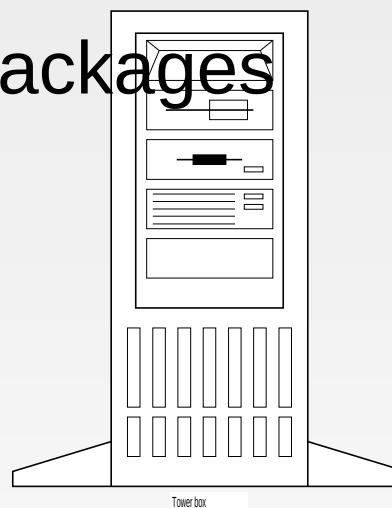
Levels of Information Systems (1)

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

Levels of Information Systems (2)

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

Levels of Information Systems (3)

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

The End

The END

The END

THE END

Next:
The Fundamentals of
The Information Theory