

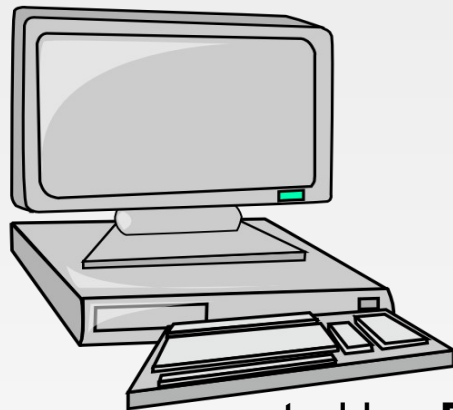


Information and Communication Technology:

INFORMATION

(the extended meaning)

INFORMATION



presented by: **Rhiza S. Sadjad**

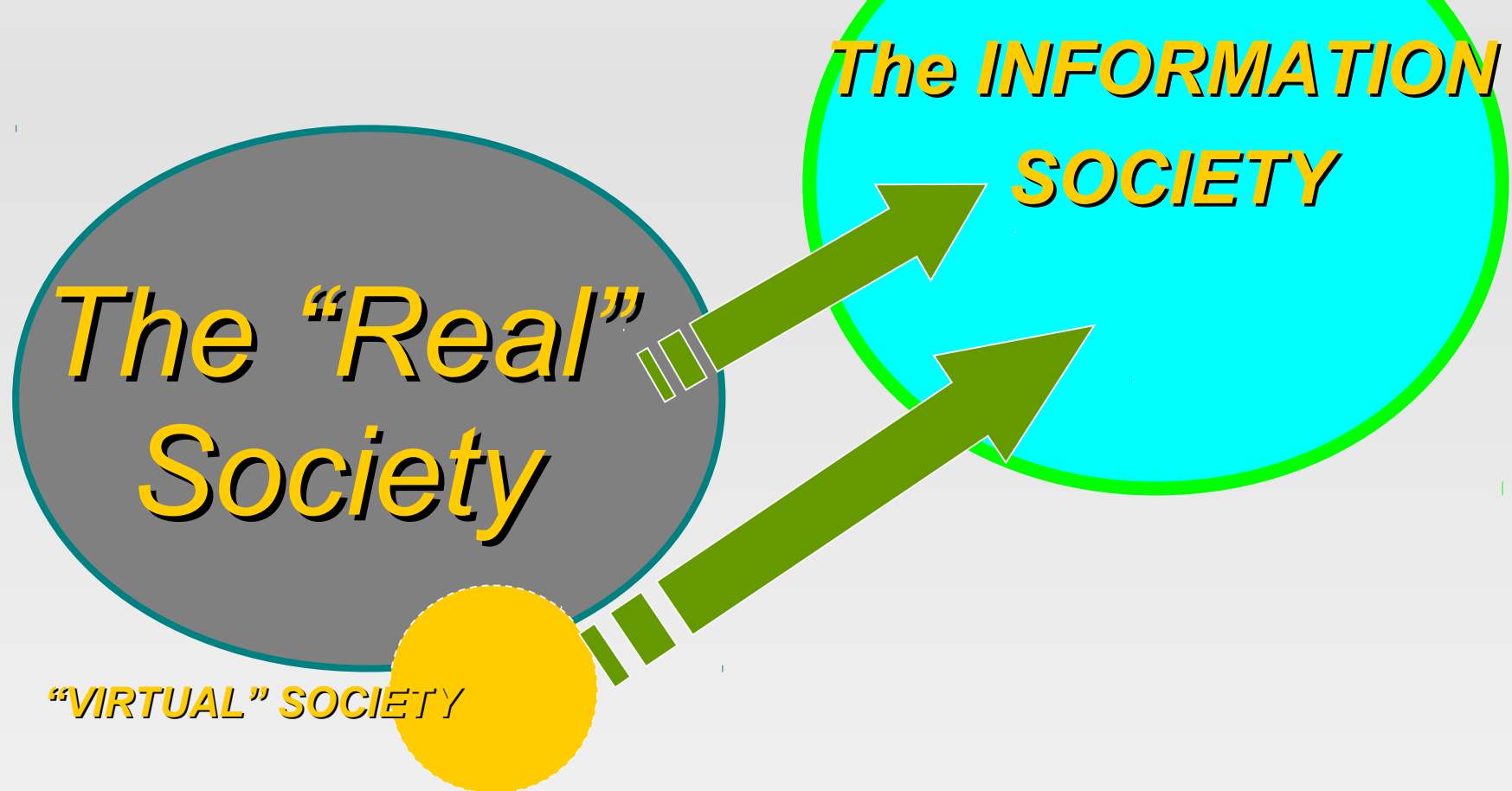
rhiza@unhas.ac.id <http://www.unhas.ac.id/rhiza/>

INFORMATION

(the extended meaning)

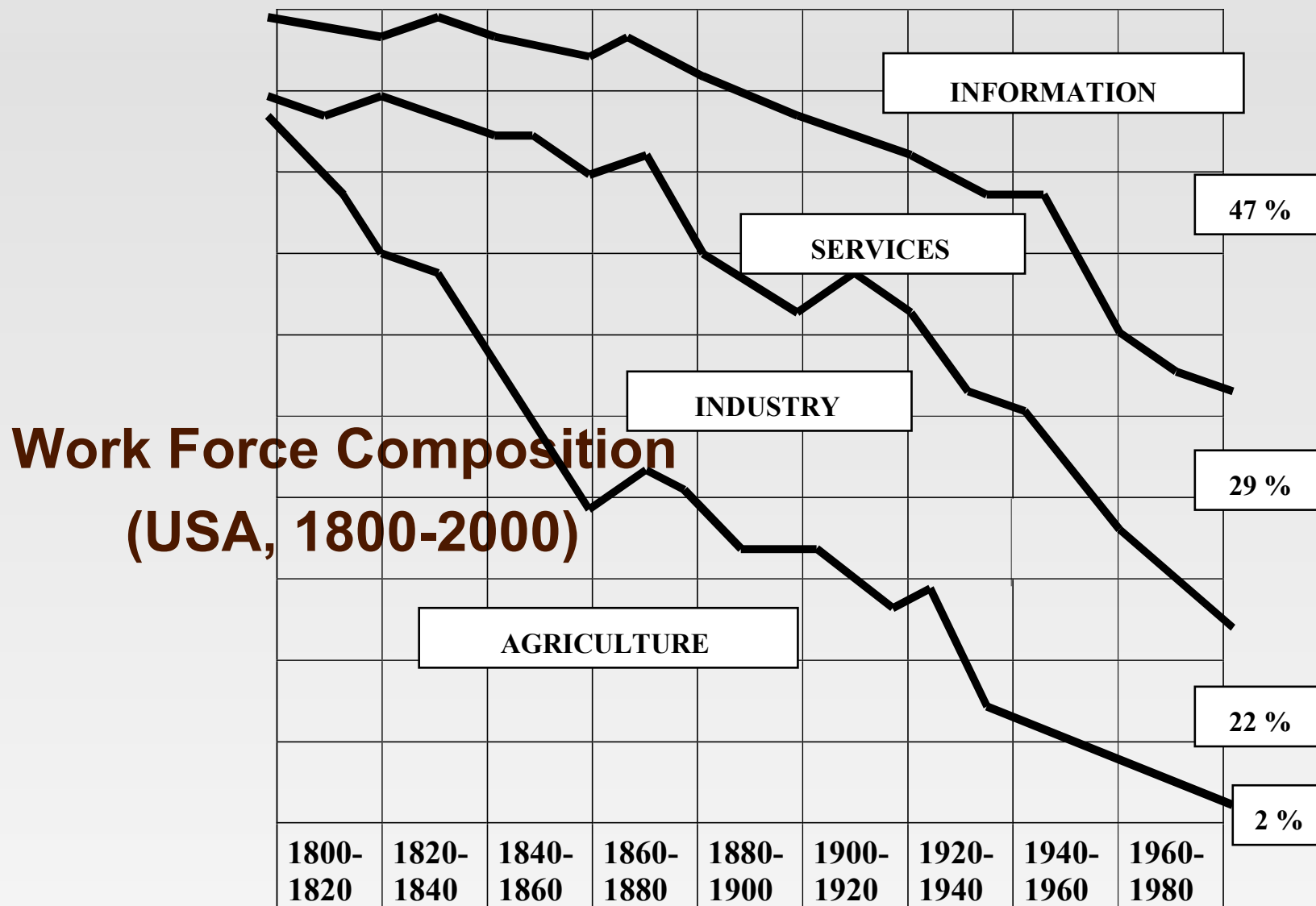
- *(more about)* **The Information Society**
- **The Information Workers**
- **The Information System**

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



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

The Information Workers:

Those who make their living by:

producing

processing.....

distributing.....

INFORMATION

and

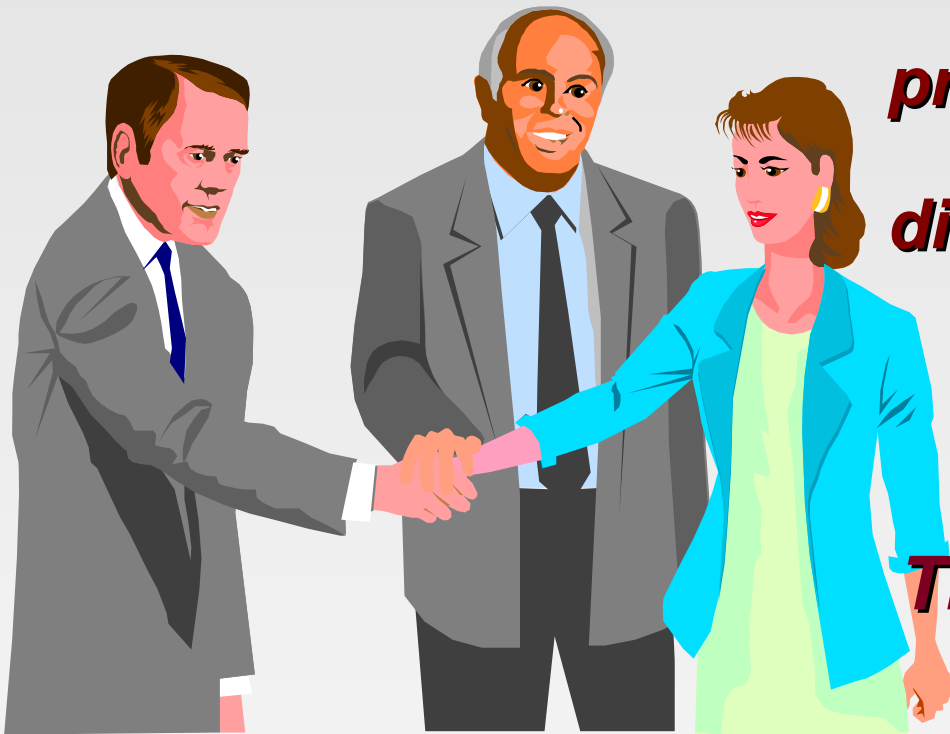
producing

The Information Technology


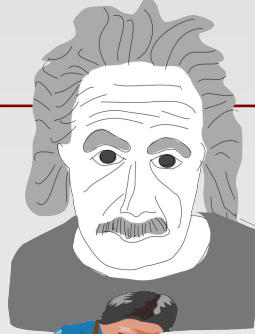




(Rogers, [1986], page 10)

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

C/O

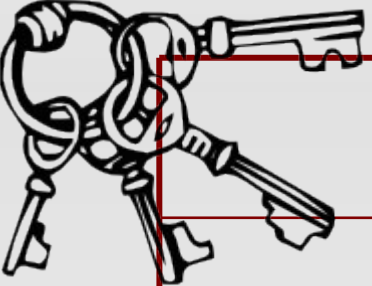




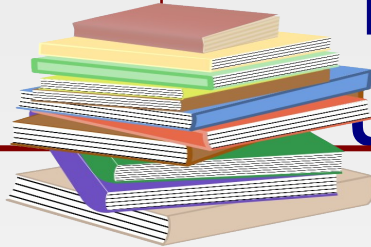


Main type of employment

 Society		Profession
Agricultural		FARMERS
Industrial		FACTORY Workers
Information	 	INFORMATION Workers 

(Source: Everett M. Rogers, [1986], "Communication Technology", page. 93)

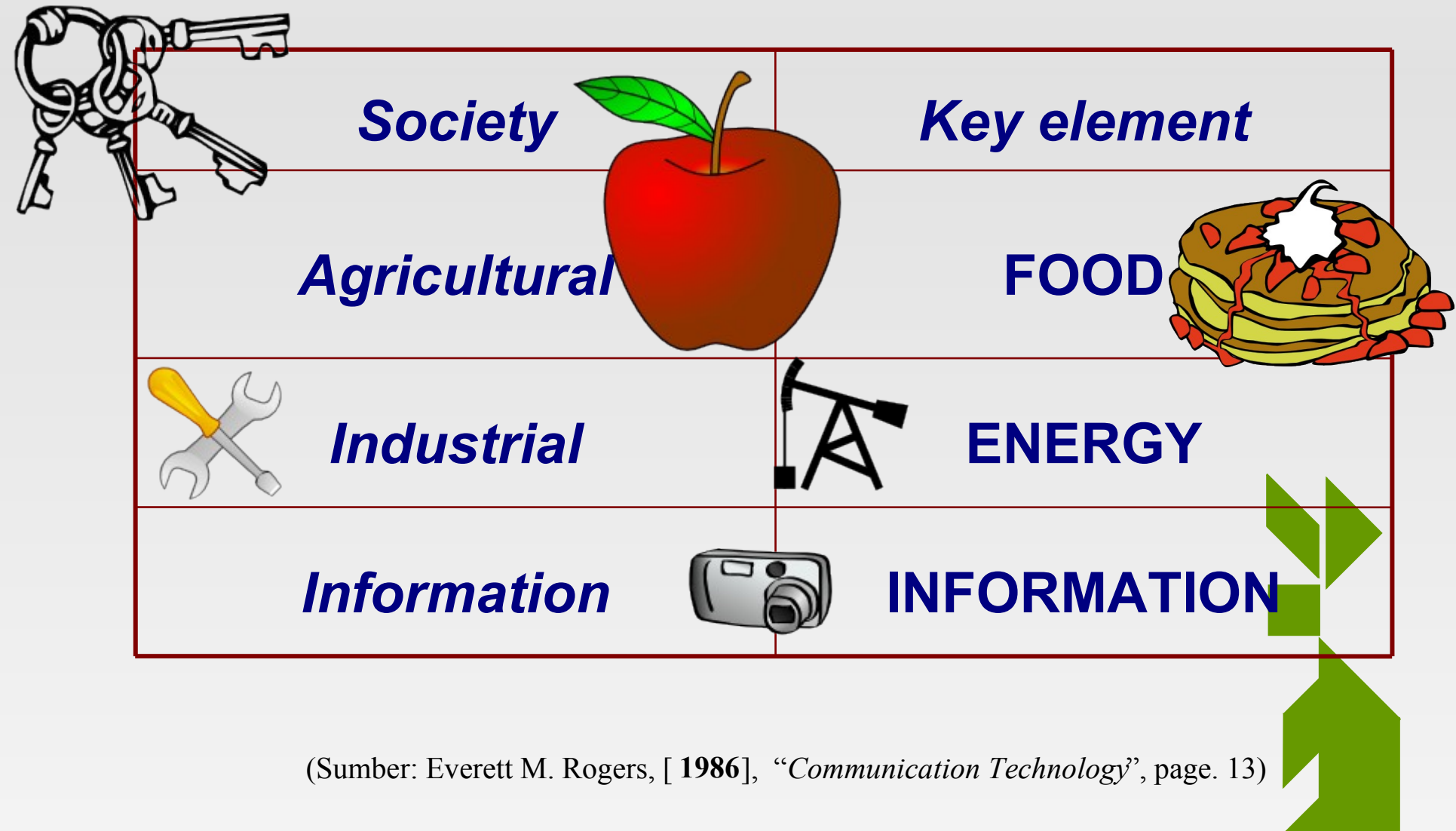
Key Social Institutions




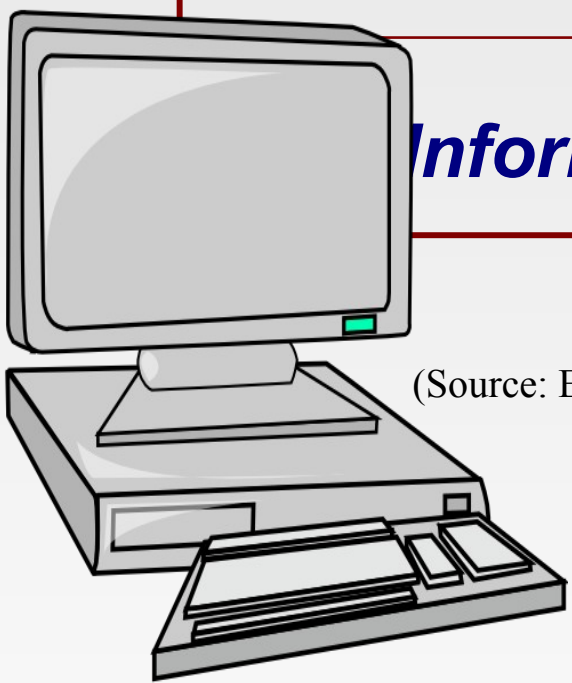


<i>Society</i>	<i>Key Social Institution</i>
<i>Agricultural</i>	FARM 
<i>Industrial</i>	FACTORY 
<i>Information</i>	RESEARCH UNIVERSITY   

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

Key element/basic resource



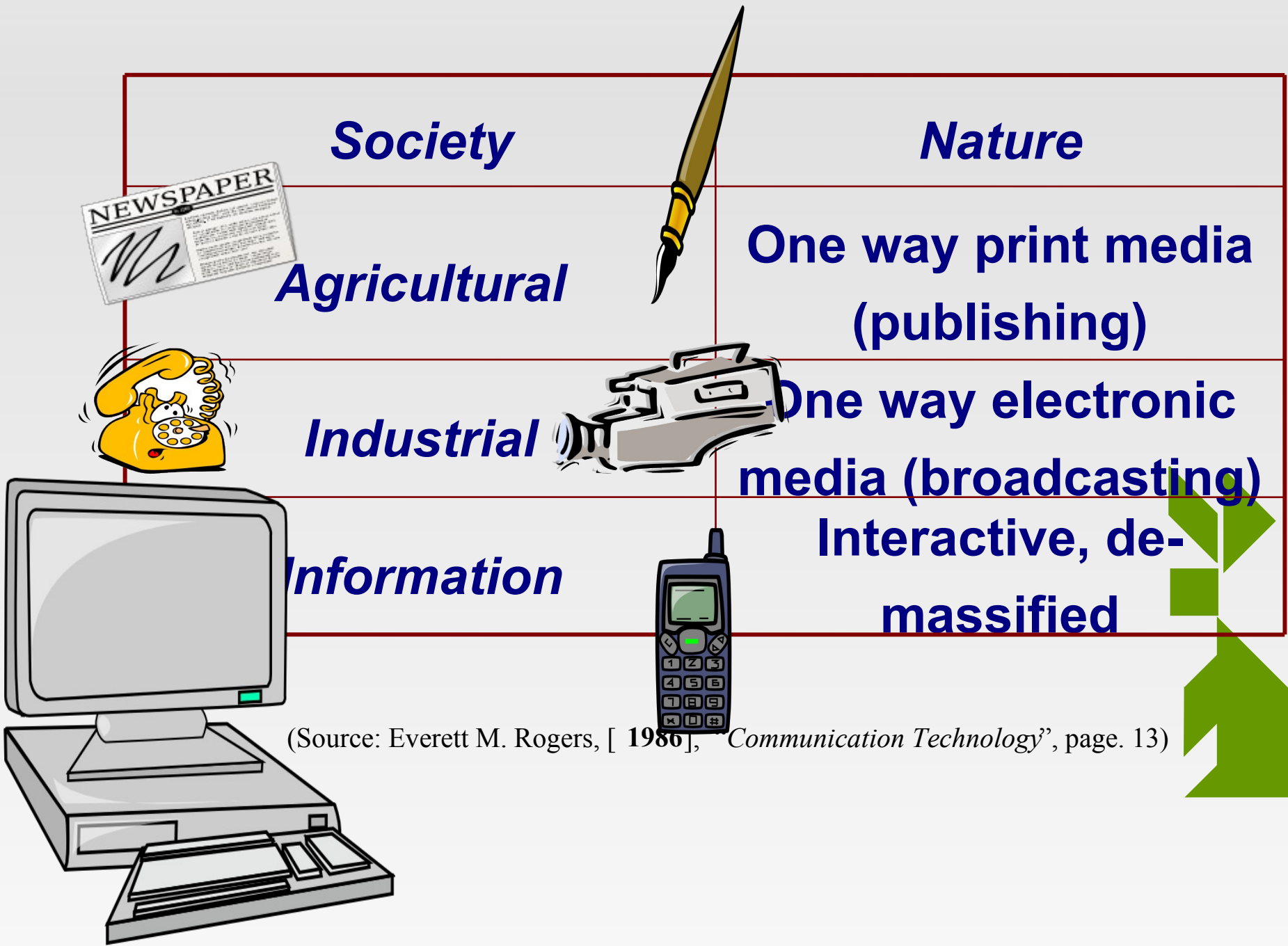
Basic Technology



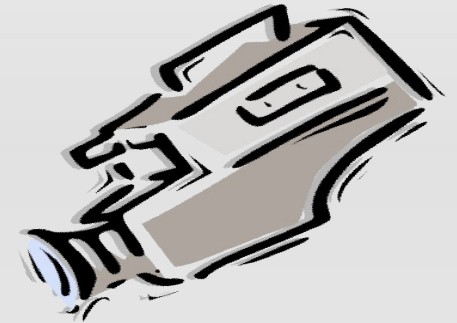
<i>Society</i>	<i>Technology</i>
<i>Agricultural</i>	Manual Labor
<i>Industrial</i>	Steam Engine
<i>Information</i>	Computer and Electronics

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

Nature of Mass Communication



Another extended meaning of INFORMATION

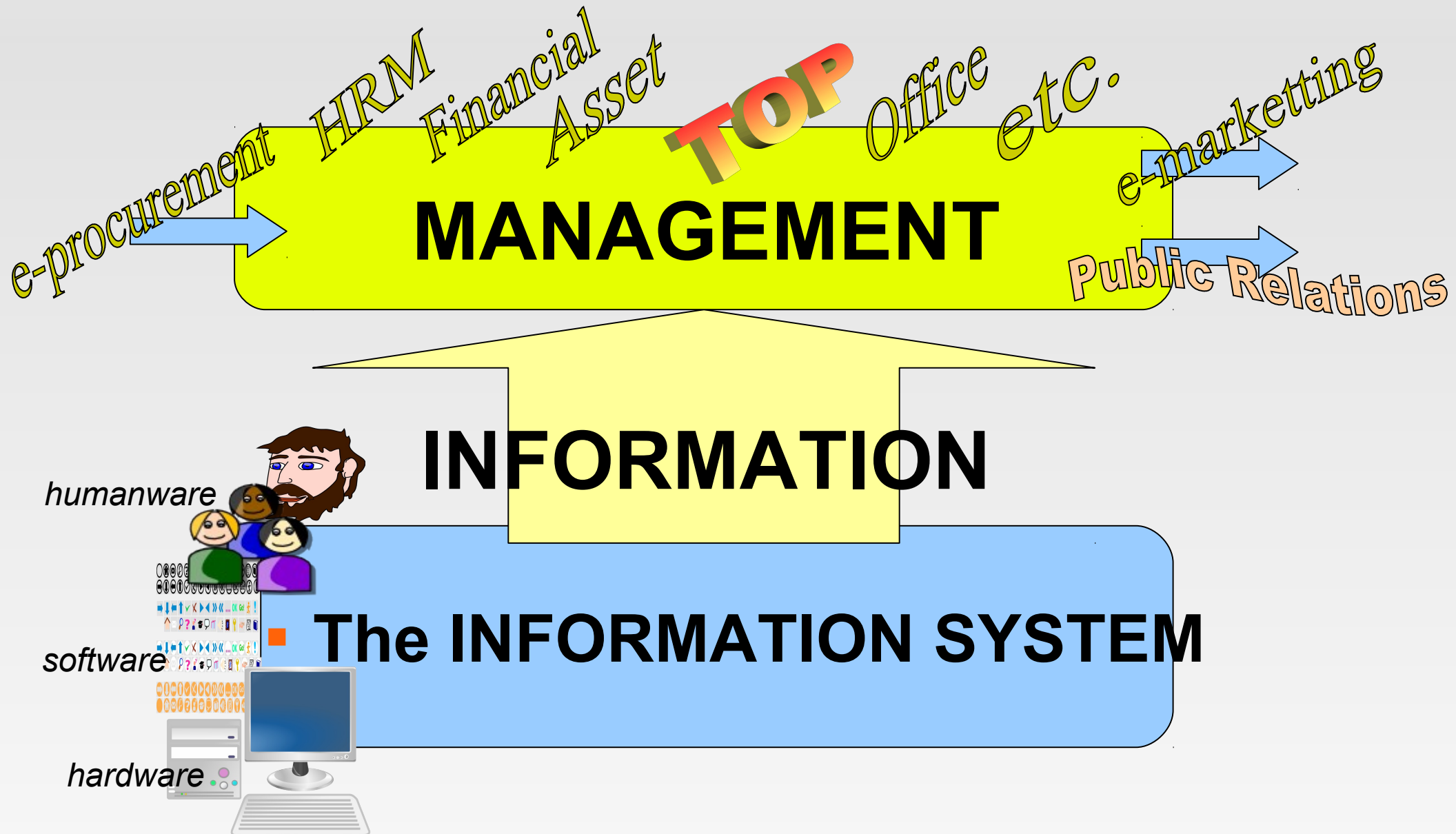


■ The INFORMATION SYSTEM

INFORMATION



FRONT DOOR!



.....**BACK DOOR!**

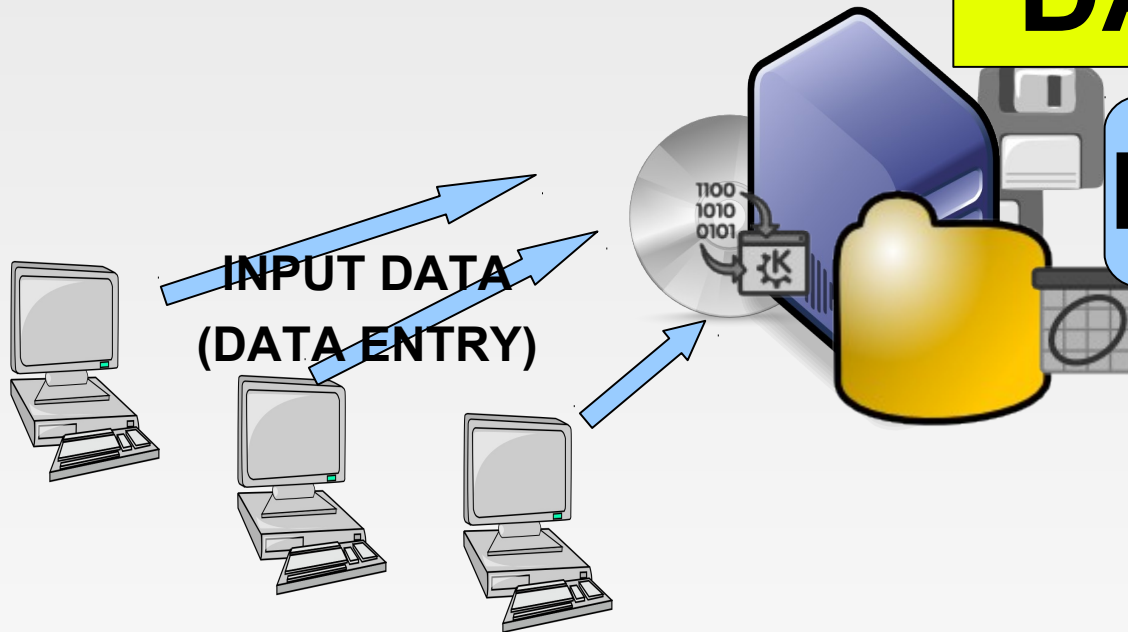
INFORMATION

The INFORMATION SYSTEM

DATA

DATA-BASE

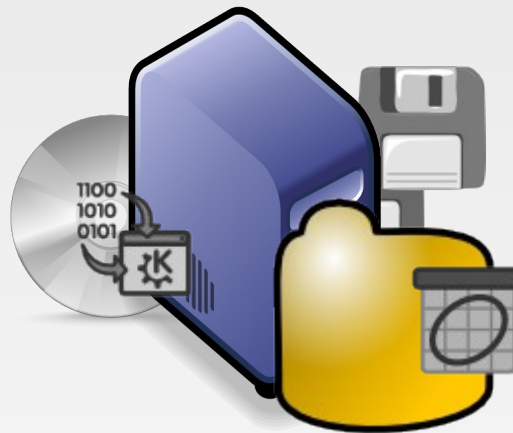
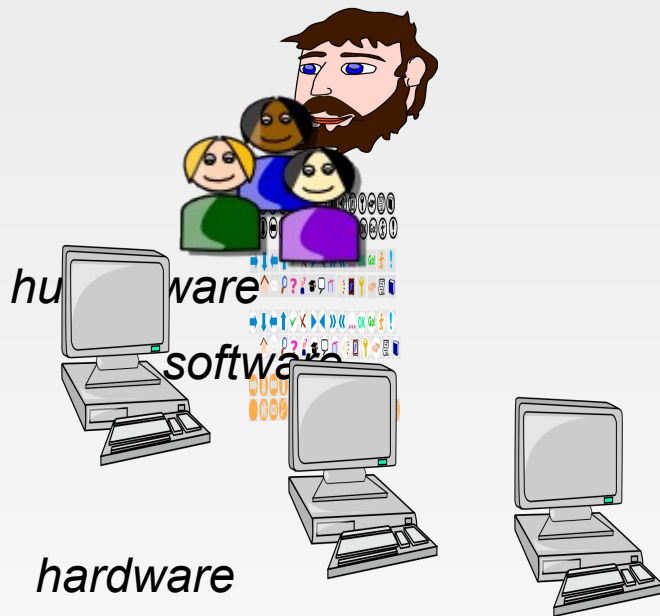
**INPUT DATA
(DATA ENTRY)**



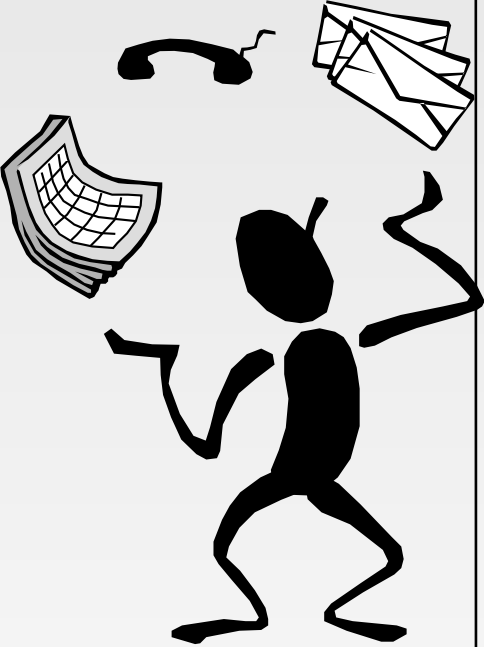
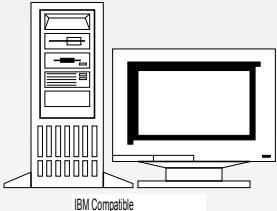
The Levels of INFORMATION SYSTEMS

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

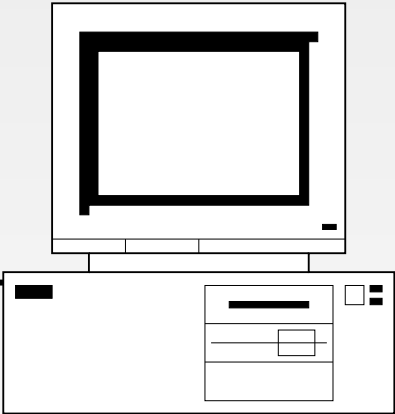
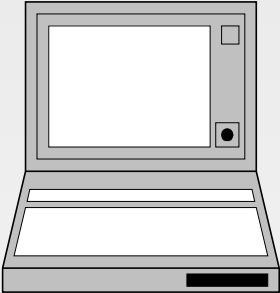
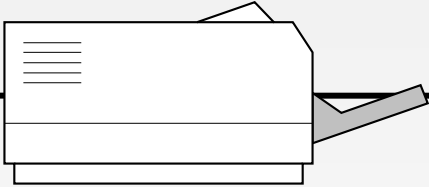
MANUAL
COMPUTER
NETWORK



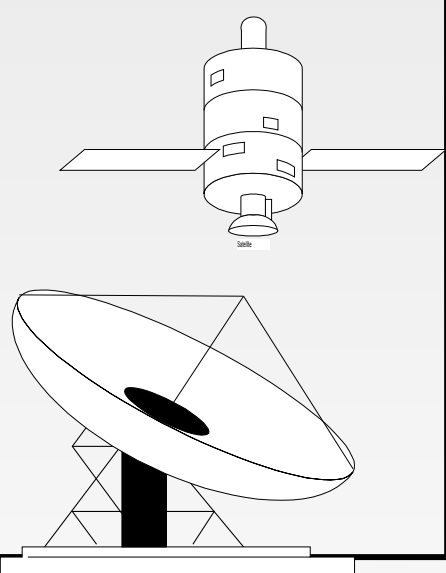
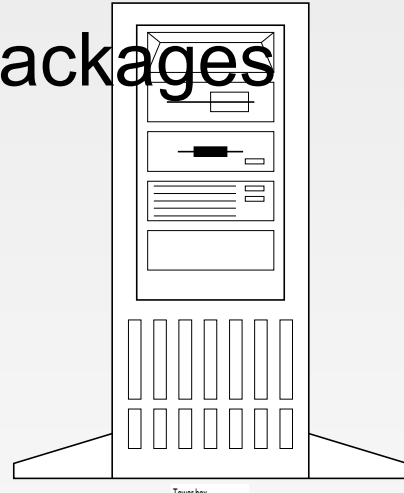
Levels of Information Systems (1)

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  <p>IBM Compatible</p>	<p>COMPUTER generally PCs</p>  <p>Laptop computer</p>  <p>Laser printer</p>	<p>Specifically developed application software package, for example: <i>Academic Information Systems</i>, etc.</p>	<p>Most tasks that are relying on human capabilities have been taken over by computers programs.</p>

Levels of Information Systems (3)

Level	Hardware	Software	Characteristics
<p>NETWORK-based <i>(on-line)</i></p>  <p>The illustration shows a satellite in orbit with two solar panel wings and a central body. Below it is a large satellite dish antenna mounted on a tripod-like base. Small labels 'Satellite' and 'Satellite dish' are present at the bottom of the respective images.</p>	<p>COMPUTER(PC, Workstation, Server), network components (NIC, HUB, BRIDGE, SWITCH), Tele-communication Systems</p>	<p>Network-based Application software packages</p>  <p>The illustration shows a tall, vertical computer tower case with multiple drive bays and ventilation slots. A small label 'Tower box' is at the bottom.</p>	<p><i>Resource sharing, accessible from other networks.</i></p>

The End

The END

The END

THE END

Next: 
The Fundamentals of
The Information Theory