

**Unit**

**1**

# Concept of ICT

# 1. Concept of ICT

1.1 Basic building blocks of information & their characteristics

1.2 Need of technology to create, disseminate & manage & an information

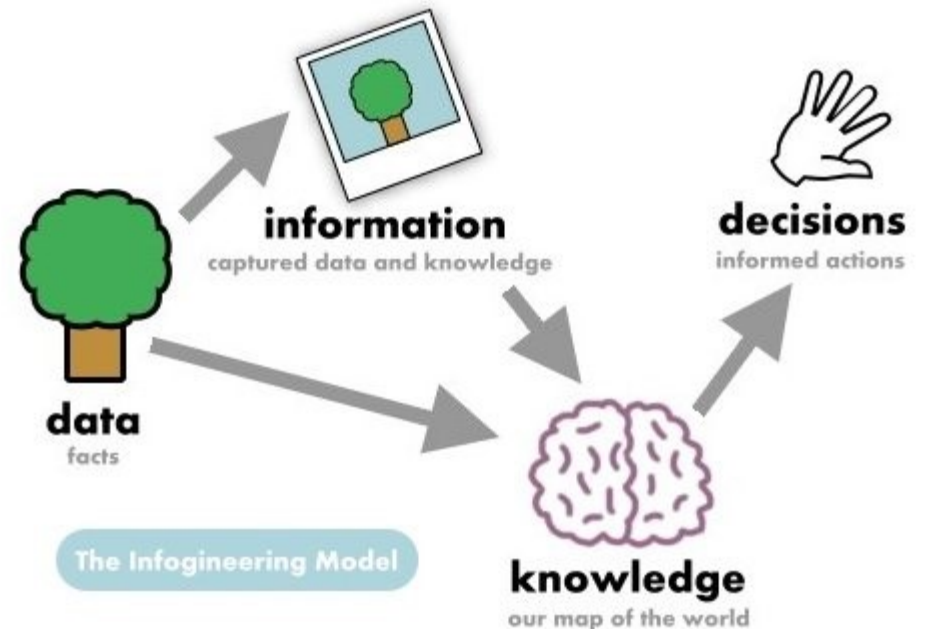
1.3 An abstract model of information creation & evaluates its compliance with ICT

1.4 Basic components of a computer system

1.5 Analyses the activities of data processing

1.6 An application of ICT in different domains

1.7 Impact of ICT in the society

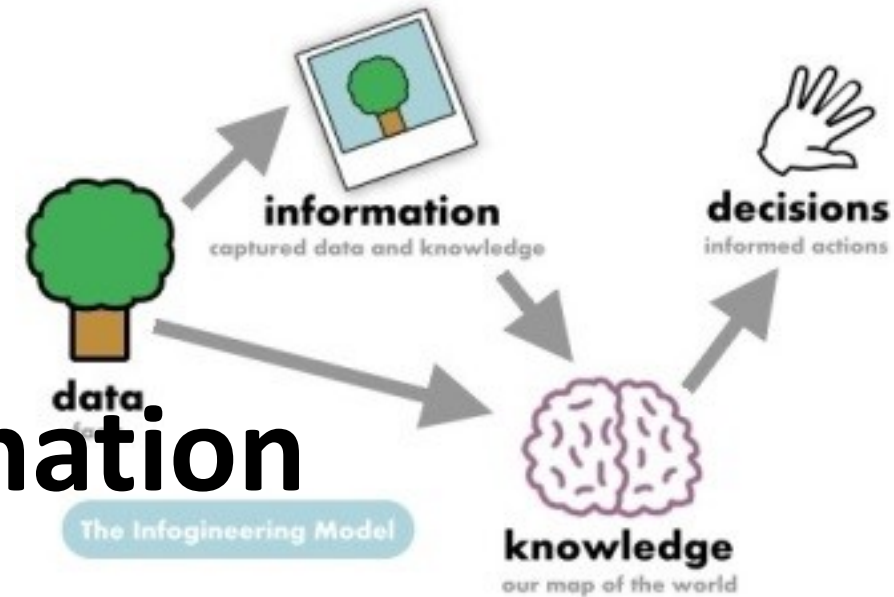


# Unit **1**

## Concept of ICT

### 1.1

## Basic building blocks of information & their characteristics



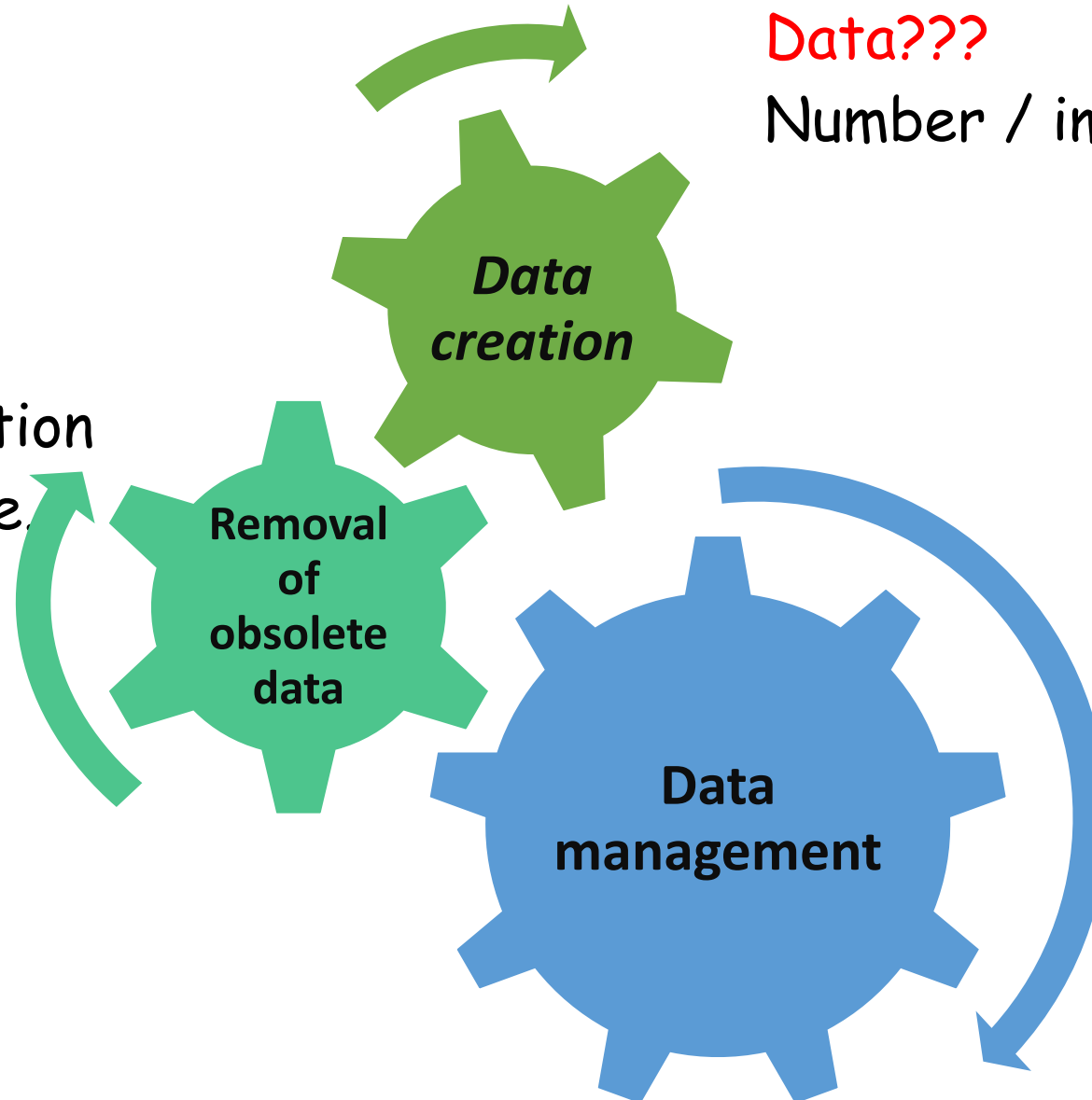
# 1.1 Basic building blocks of information & their characteristics

- ✓ **Life cycle of data**
- ✓ **Data and Information**
- ✓ **Definition of information**
- ✓ **Characteristics of valuable information**
- ✓ **Handling large volumes of data**

# 1.1 Basic building blocks of information & their characteristics

## ✓ Life cycle of data

Sequence of stages that a data goes through from its initial form to its archival and/or deletion at the end of its useful life.

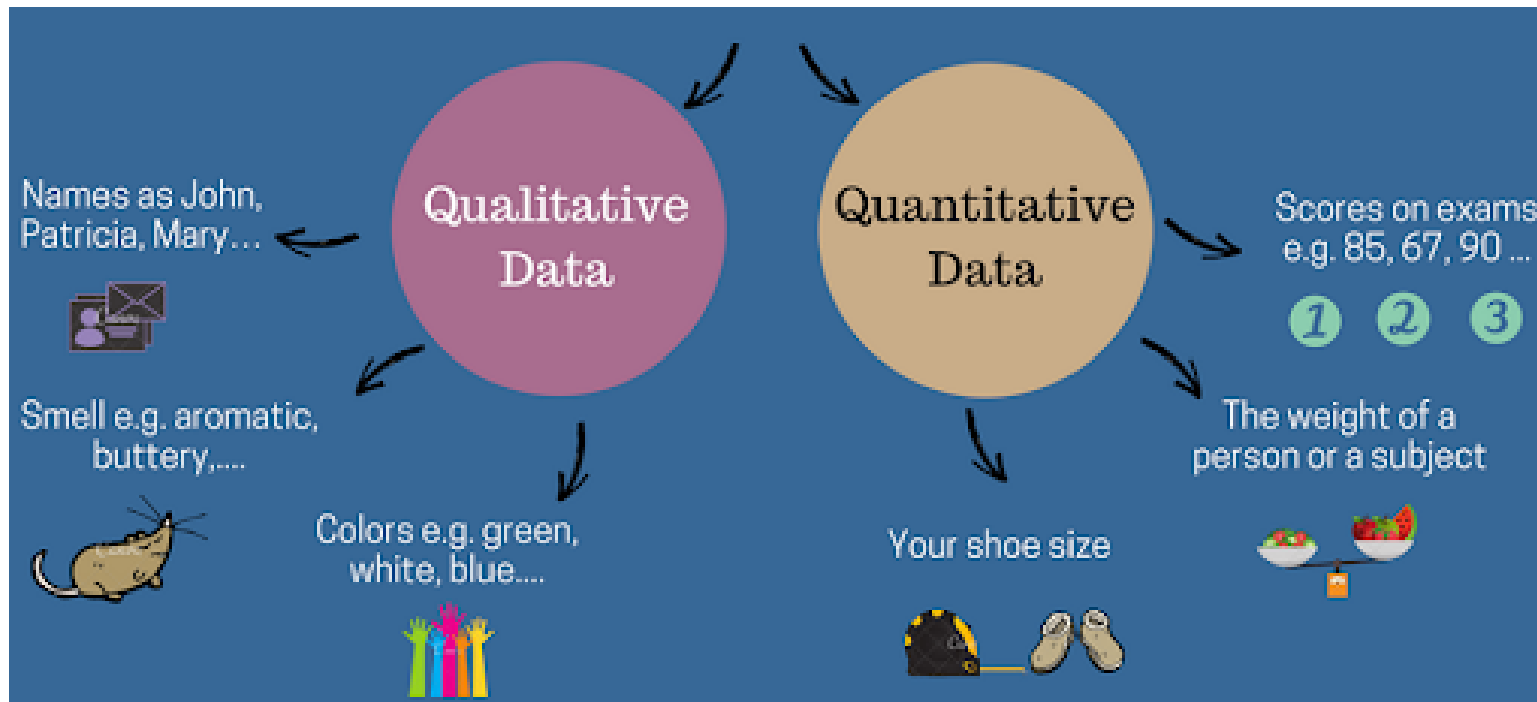
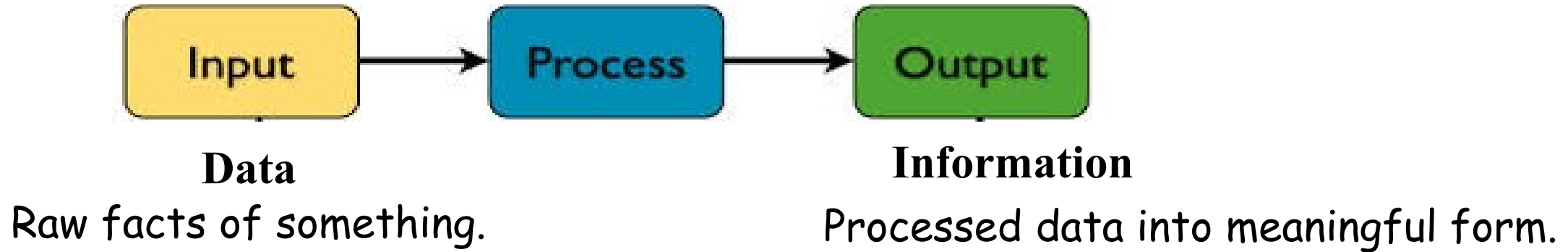


Data???

Number / image/ text/ .....

# 1.1 Basic building blocks of information & their characteristics

## ✓ Data & Information



# 1.1 Basic building blocks of information & their characteristics

## ✓ Data vs Information.....



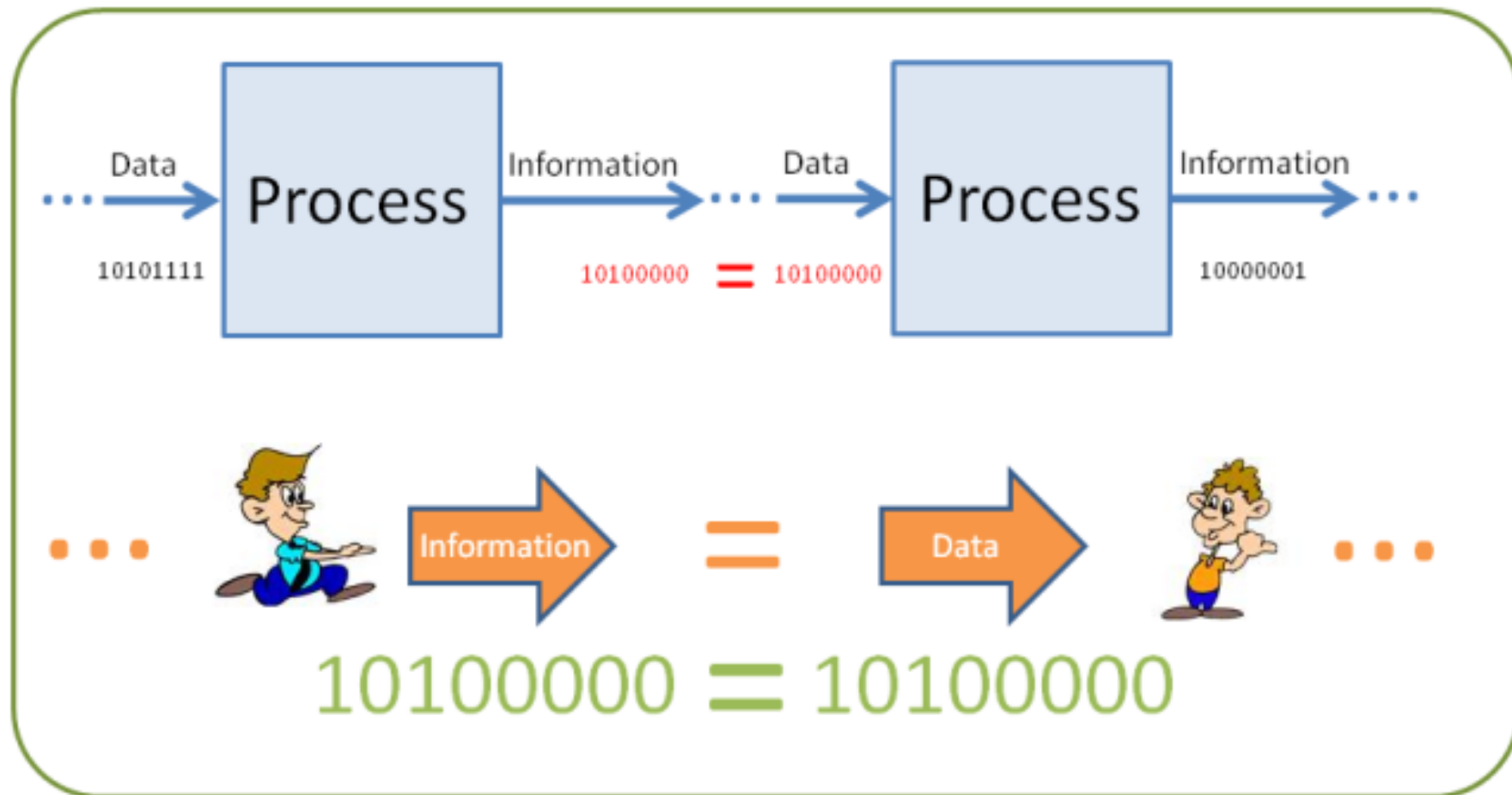
- Not meaningful
- Cannot use for decision making
- Unorganized
- Incomplete
  
- Can be stored
- Can be communicate

- Meaningful
- Can use for decision making
- Organized
- Complete
  
- Can be stored
- Can be communicate

# 1.1 Basic building blocks of information & their characteristics

## ✓ Data & Information

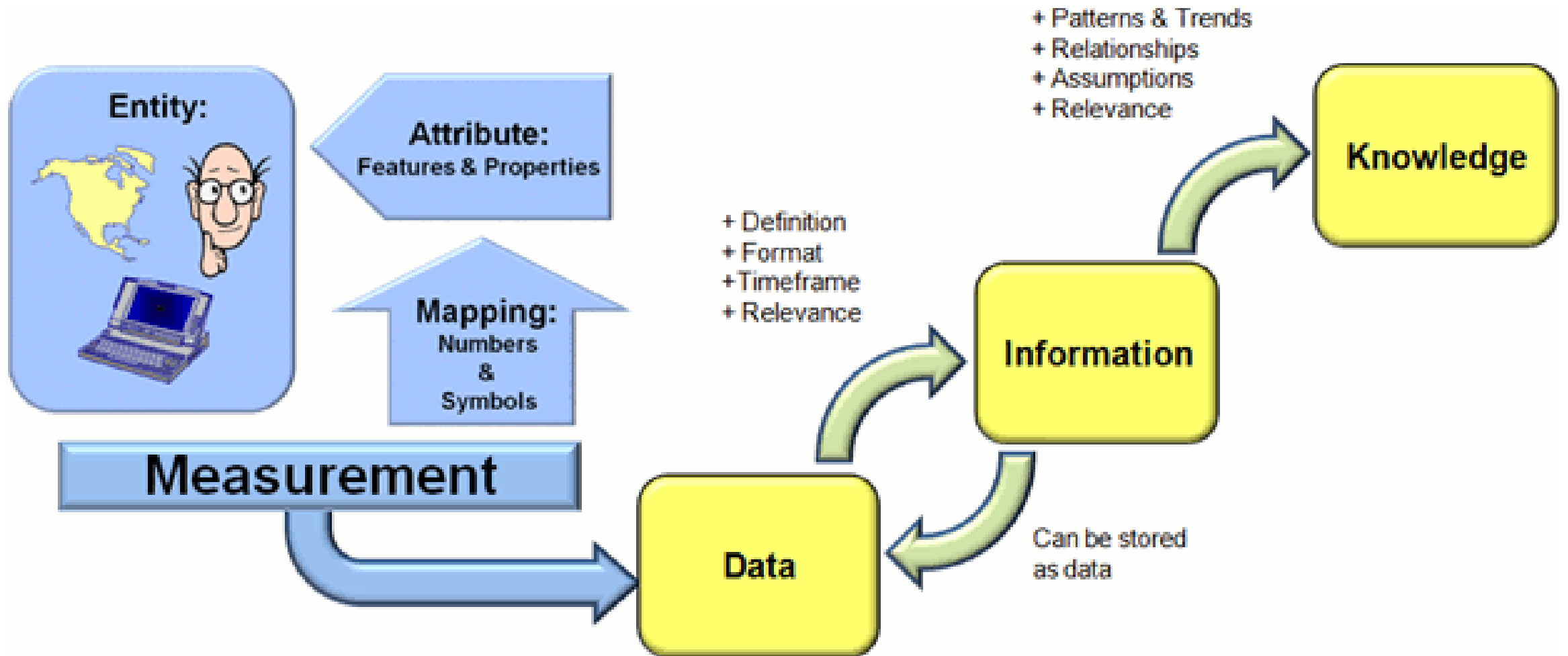
Information in one process can be a data to another process.





# 1.1 Basic building blocks of information & their characteristics

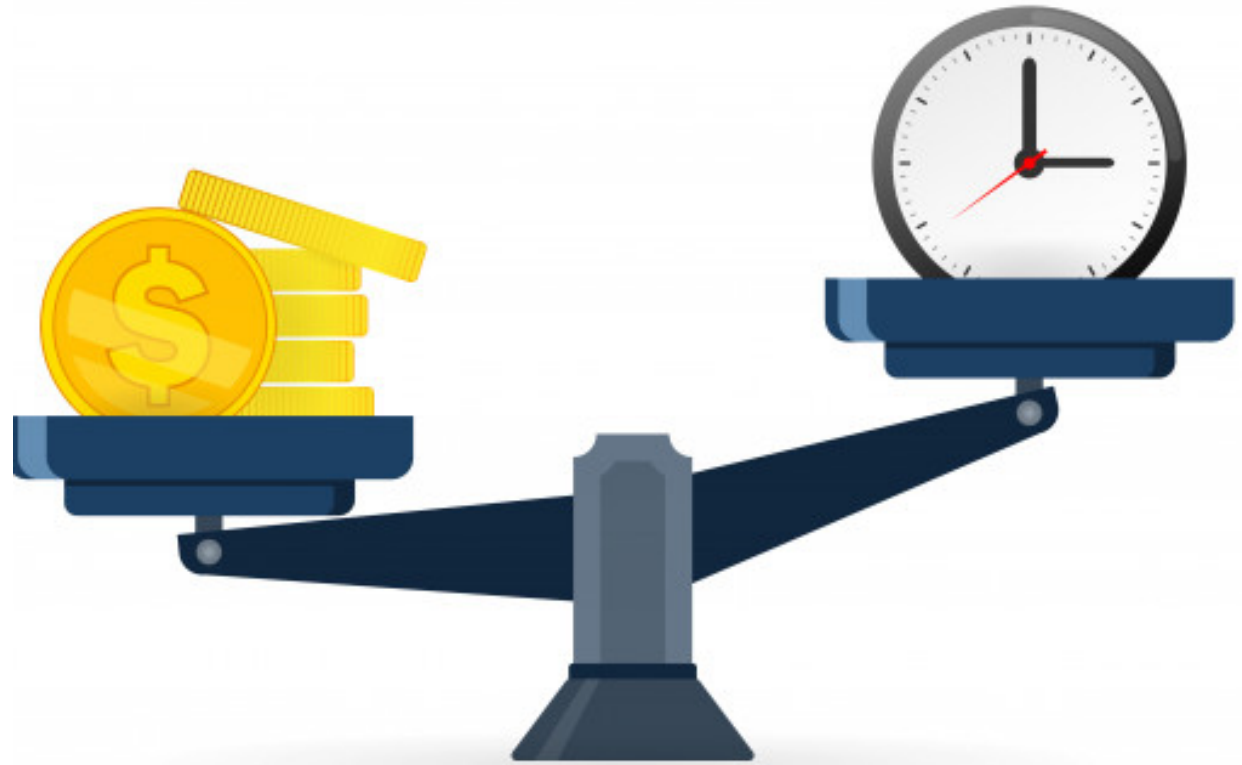
## ✓ Data, Information, Knowledge



# 1.1 Basic building blocks of information & their characteristics

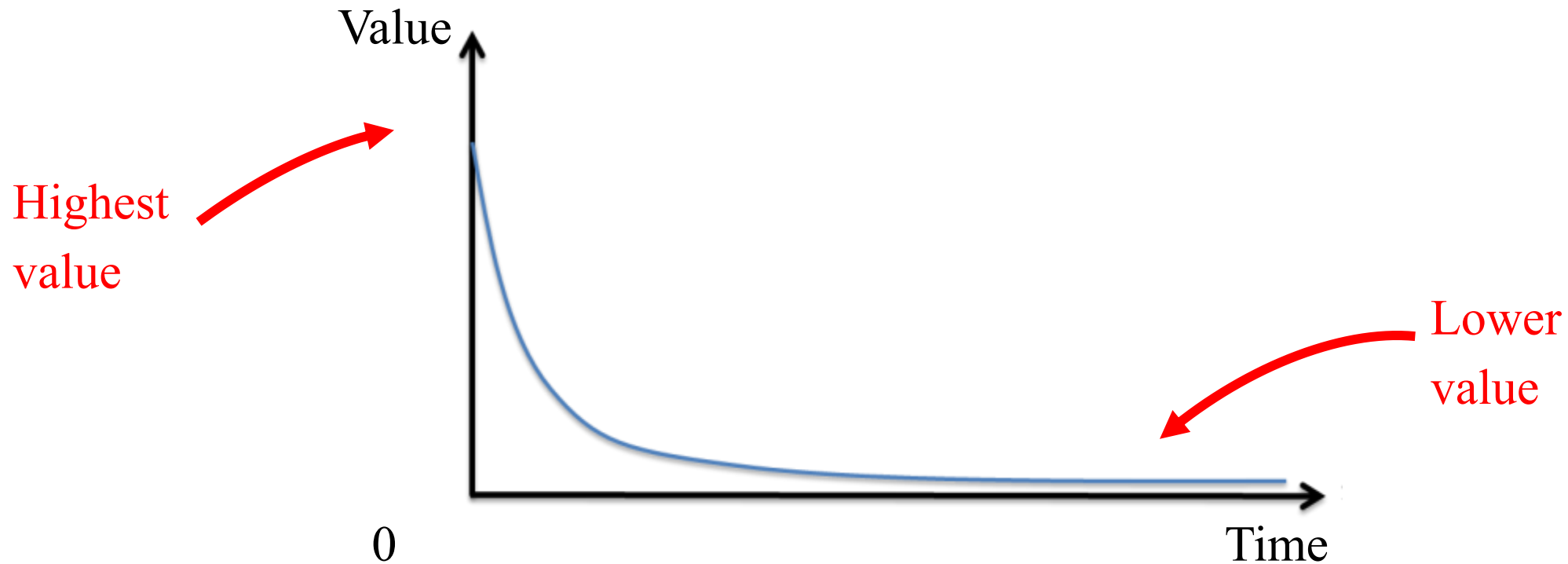
## ✓ Characteristics of valuable information

- Accurate
- Complete
- Cost beneficial
- Relevant
- Timeliness
- Simple & clear
- Accessible



# 1.1 Basic building blocks of information & their characteristics

## ✓ The golden rule of Information



# 1.1 Basic building blocks of information & their characteristics

## ✓ Handling large volumes of data

large volumes of data?

Problems ?????

- Time wasting
- Accuracy issues
- Security issues
- Complexity



**Thank you**