System & Information Technology

Content:

Information System
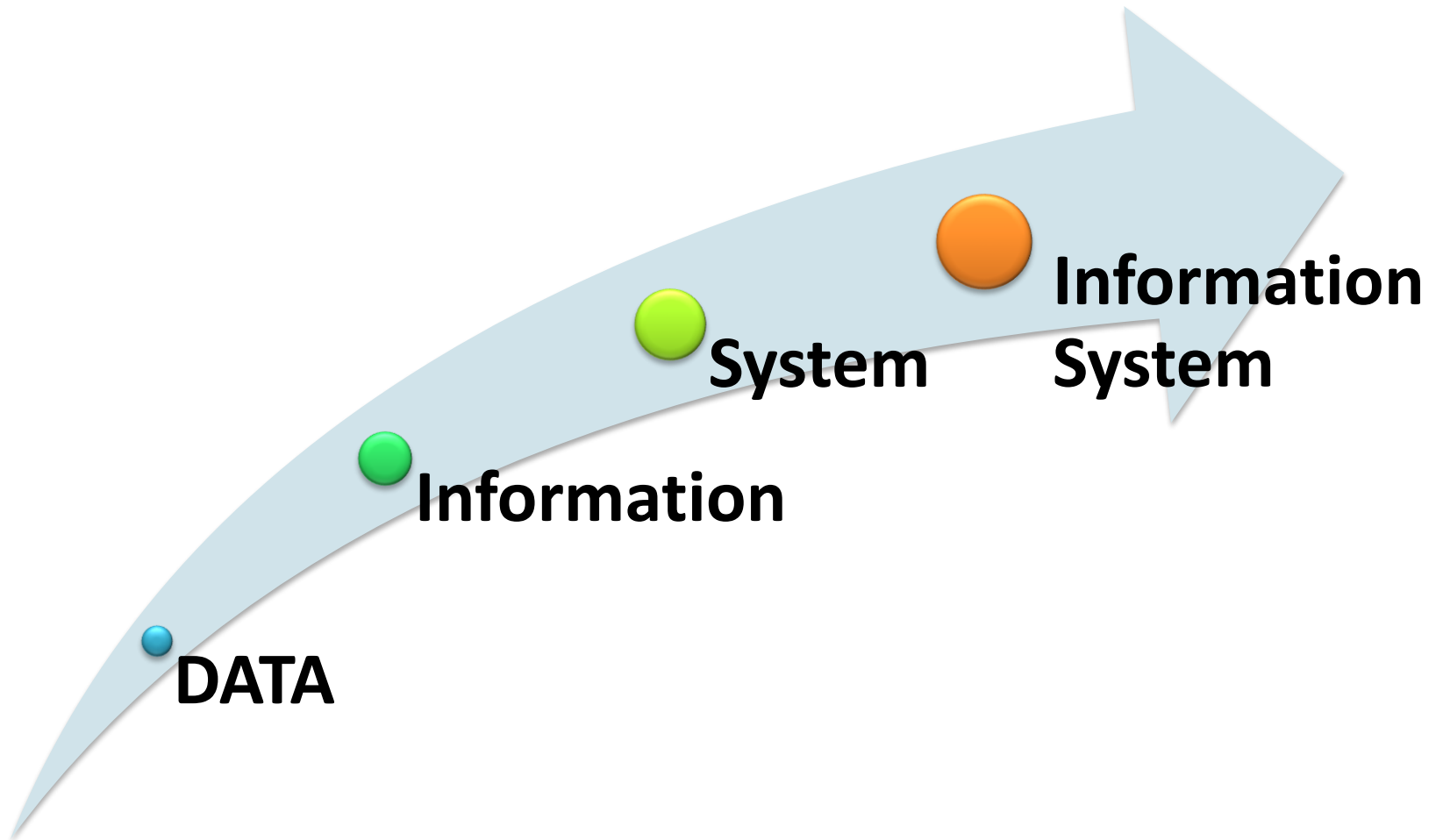
System

Information

DATA

DATA

- **data** is fact or observation about phenomenon or business transaction or more spesific, the data are objective measurements on the attributes (characteriistics) of certain entity like human, place something or events (O'Brien, 1999),

- **data** is a fact or picture that is relatively **meaningless** to the user. (McLeod, 1995)

- Ex:
  - ➢Working hours
  - ➢Student age
  - ➢Amount of production

INFORMATION

- **Information** can be said to be data that has been processed or data that has **meaning** (McLeod, 1995).

- **information** is data that is placed in order to have meaning and useful for its users. (O'Brien, 1999)

Information quality characteristics

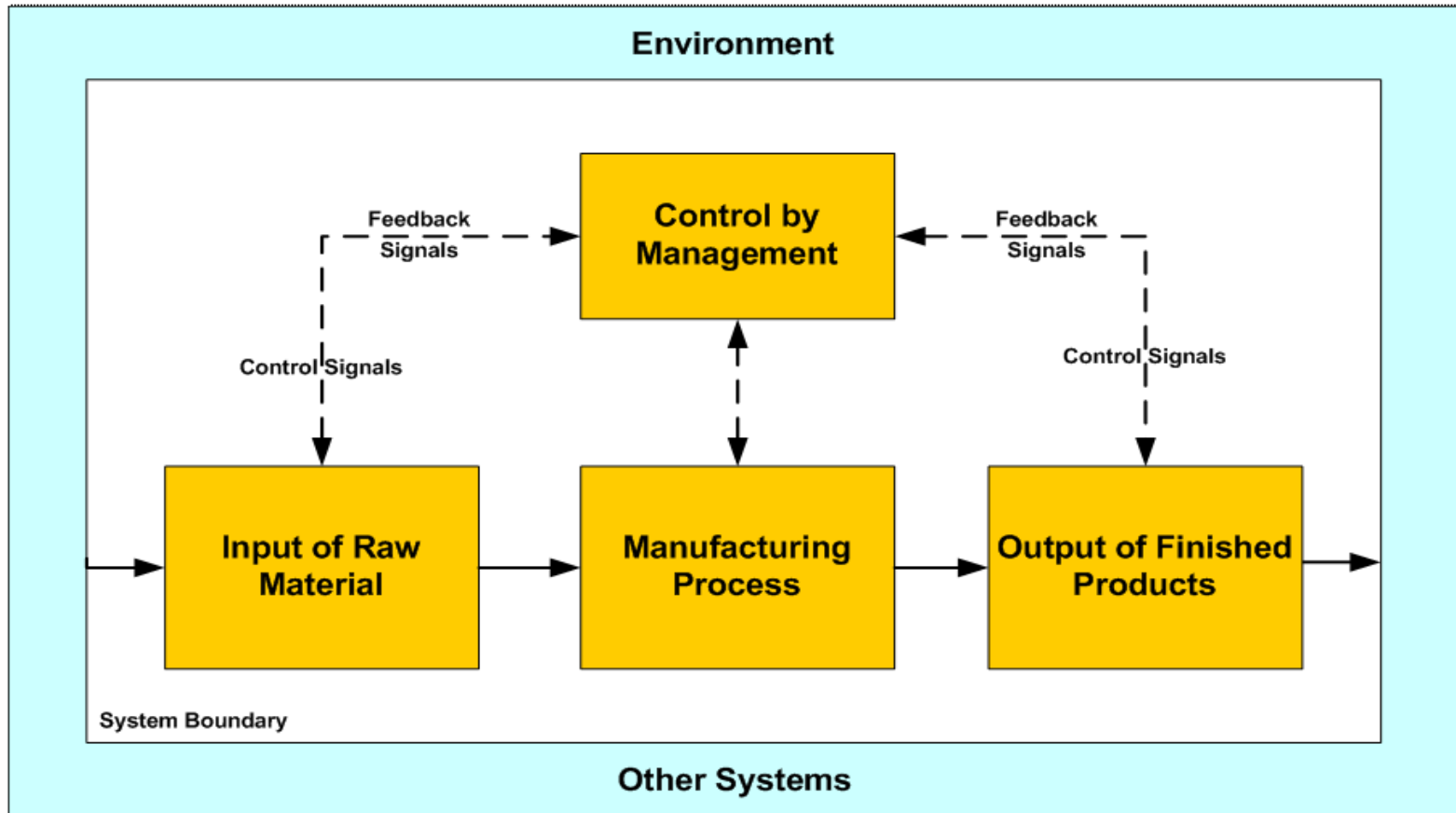| Time	Content	Form
• Timeliness	• Accuracy	• Clarity
• Currency	• Relevance	• Detail
• Frequency	• Completeness	• Order
• Time Period	• Conciseness	• Presentation
	• Scope	• Media

SYSTEM

- **System** is collection of elements that interact to achieve a certain goal

Open Loop System
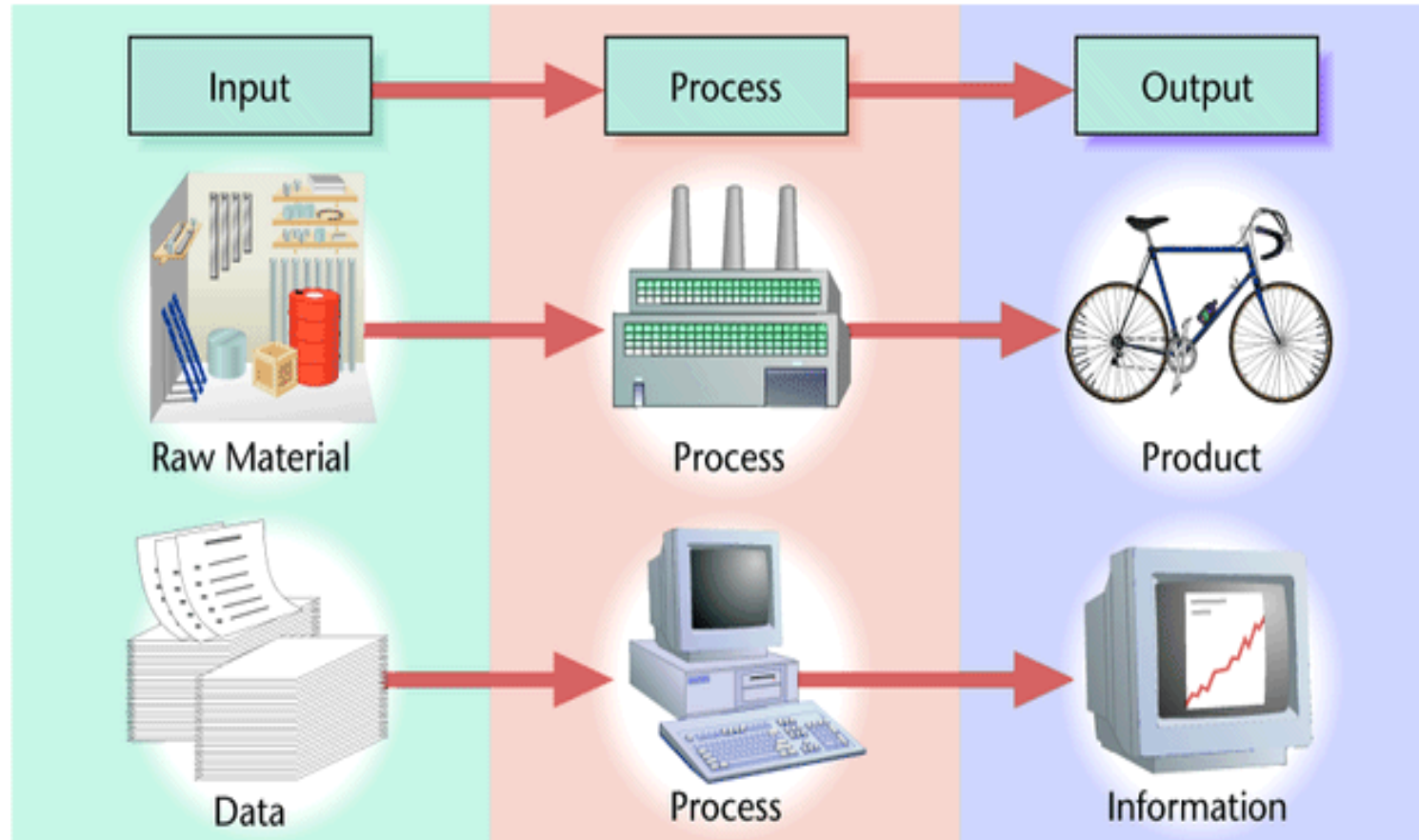
Close loop System

System & Information Technology (Bentley, 2000)

- **Information System(IS)** is an arrangement of data, process, communication, and information interacting people to support and improve day-to-day operations in business and support problem solving and decision-making for the needs management and users.

- **Information Technology (IT)** is a contemporary term that describes a combination of computer technology (hardware & software) with telecommunication technology (data, images, and voice network)

Computer Based Information System

FORMAL SYSTEMS

FIXED DEFINITIONS OF DATA, PROCEDURES

COLLECTING, STORING, PROCESSING, DISSEMINATING, USING DATA
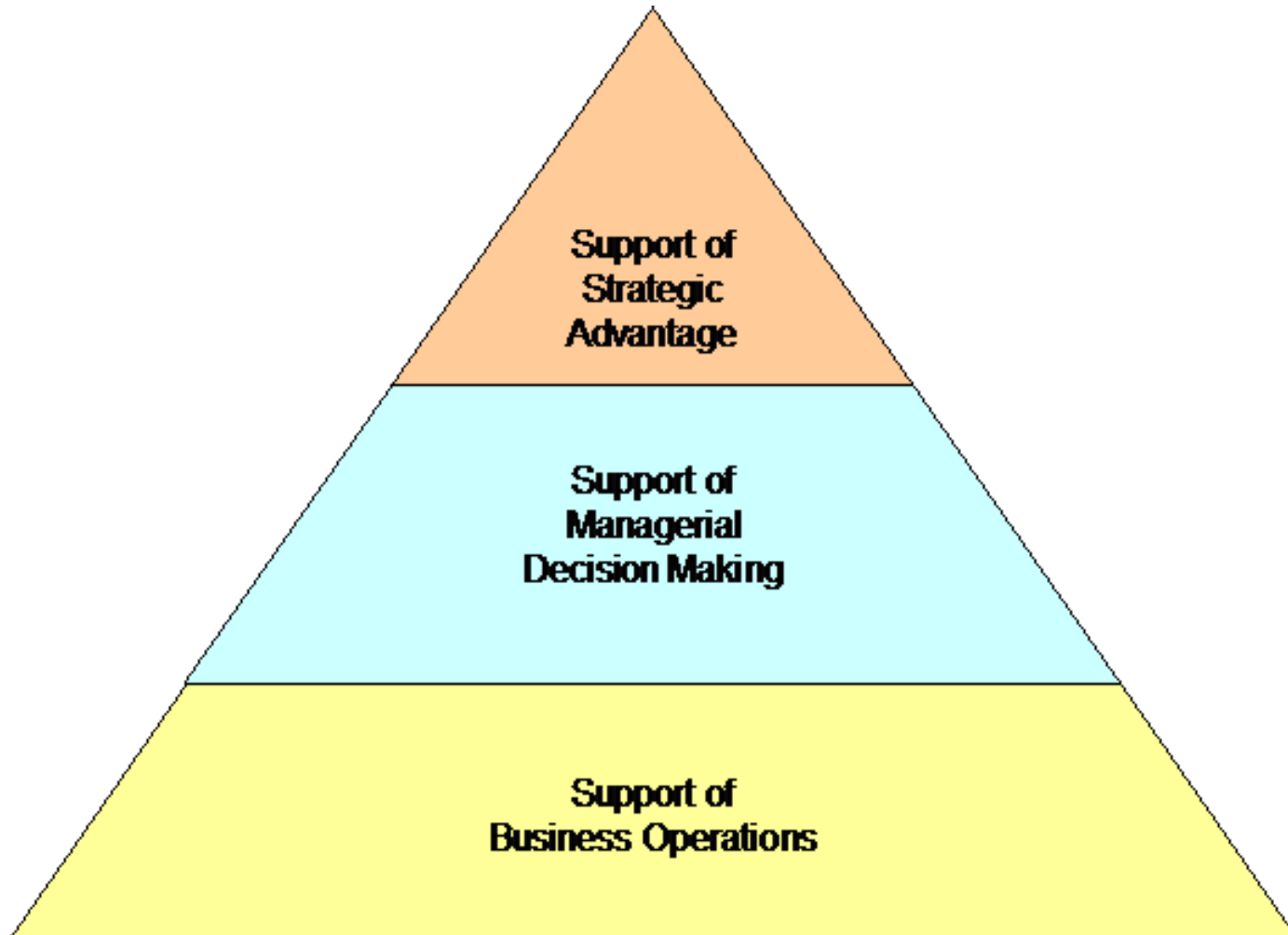
Information System function

Improves operational efficiency, productivity, and morale of labor, service and customer satisfaction

The main source of information and support the needs of the manager in making decisions

Essential components in the development of competitive products and services.

A major part of corporate resources demanding sustainable management

The main role of IS in organizations

IS development

1950 Traditional accounting application

Simple data processing

1960 Multi purpose mainframe computer

1970 Decision Support System

1980 Artificial Intelligence

1990 Information System