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BUS341/ITS341

02/04/2023

## Management Information Systems

An Information System is a group of components that interact to produce information. These components are hardware, software, data, procedures, and people.

The five components of an Information System work all together for a goal. Its goal is to support the operations, management, and decision-making functions of an organization. The data works as the bridge of these five components, and it divides them in two sides: computer and human, which are software and hardware and procedures and people, respectively. As these two get together because of the data, there are also two categories: actors and instructions, which are hardware and people and software and procedures, respectively. An example which includes all these five components is a POS, which means Point of Sale. The POS terminal, barcode scanner and receipt printer are the hardware of this process. The software in this process oversees managing transactions and customer reports. Data, of course, is all the information that is stored about the company such as prices or sales transactions. The LAN (local area network) is what connects the server to the terminal, and this is the network's job. Lastly, in this process, we have people which refers to the employees and customers who use it to purchase and complete transactions.

The main difference between an Information System and Information Technology is that an IS is the same as an IT, but it includes procedures and people. IT refers to the hardware, software, and infrastructure used to store, process, and transmit information. IS goes beyond the technology infrastructure to encompass the complete system of people, processes, and technology that is used to manage and utilize information. Another big difference is that an IT can be bought as a hardware, program, or database, unlike an IS which cannot be bought because as I explained before, it is a group of components that interact to produce information. The relationship between IT and IS can be described as IT being a component of IS. IT provides the technology infrastructure that is needed to support the processes, data, and people involved in an IS. But an IS is more than just technology, it is the combination of technology, people, and processes that are used to manage and utilize information effectively.

A business process is a network of activities, resources, facilities, and information that interact to achieve some business function for a particular market or customer. It describes the steps involved in achieving a specific business goal, such as processing a customer order or delivering a product or service. The components of a business process are activities, decisions, roles, resources, and repository. All these together carry out different activities. They gather

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information from various sources. They analyze and transform data for the business to use it. Also, they evaluate the information and make decisions based on it. After that, they execute the decisions, which results in the output that is the production of the end of the process. And the last activity would be measuring the performance of the production and looking for ways to improve it.

Data and information are closely related concepts, but they have important differences. On one hand, data refers to raw, unprocessed facts, and observations that have no meaning on their own. Information, on the other hand, is data that has been processed, organized, and given context, making it meaningful and useful to the recipient. Data can come in many forms, including numbers, text, images, or audio. Information is derived from data by adding context, such as interpretation, analysis, or organization. In short, data is the starting point for information, but it must be processed, organized, and analyzed to become useful and meaningful. Information provides insights, knowledge, and understanding that can support decision-making and drive business outcomes, while data is the raw material that needs to be transformed to create information.