Lecture 1 Information System

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Data

- Raw facts
- Types
- Numbers
- Text
- Numbers + Text
- Other types ?

Introduction

- Information- processed form of data used for decision making. Information minimizes uncertainty
- Types?
- Same as data ?
- Differences ?
- Processing, sorted, organized, meaningful, Decision making, output

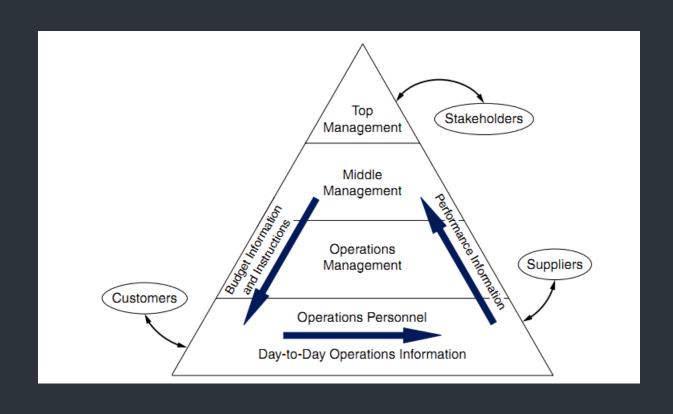
Introduction

- System- A System is a set of two or more interrelated and dependent components that interact to each other to achieve a goal.
- These components may be **referred as a subsystem** that performs a specific function important to and supportive part of the larger system.
- For example, A College has different subsystems like admission, examination, library, payroll etc.

The Information Environment

- IRM Information resource management
- Information resource management (IRM) is a broad term in IT that refers to the management of records or information or data sets as a resource. This can relate to either business or government goals and objectives.
- Information is an also vital source for any organization.
- In Every business day, vast quantity of information flows from workers to decision makers to fulfill the internal informational needs.

internal and external information flows

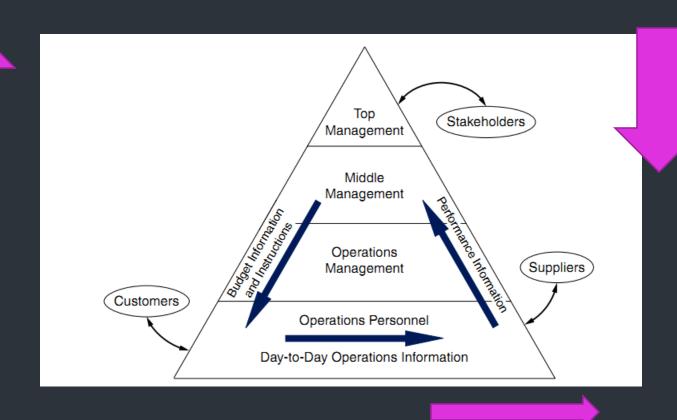


Levels of Activities

- Above the base level, we have three management levels that are operations management, middle management, and top management.
- Operations management controls all day-to-day operations.
- Middle management is responsible for short-term planning and coordination to accomplish organizational objectives.
- Top management is responsible for longer-term planning and setting organizational objectives.
- WHAT ALL THEY NEED?



Direction of Information Flow



Horizontal Flow of information

Information flows in two directions within the organization: horizontally and vertically. The horizontal flow supports operations-level tasks with highly detailed information about the many business transactions affecting the firm. It flows information between co workers or between the employees of same department.

Vertical flow of information

The vertical flow if information flows across the four levels in both directions upward and downward. It distributes summarized information about operations in the form of budget and instructions downward while performance information upward to evaluate and monitor the overall success of an organization at each level.

Internal and External Flow of information

Like horizontal and vertical flow information flows internally between all levels of workers and managers and outside the organization. In figure we can see the two main external users Stakeholders? and Trading partners. Trading partners further can be divided in to customers who require sales and billing information and Suppliers that require inventory information.

Internal and External Flow of information

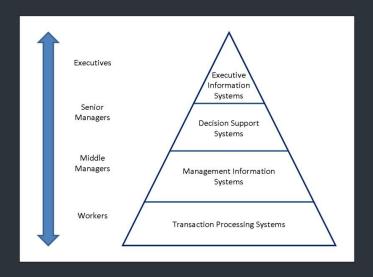
Stakeholders are all those entities/offices/organizations/personals outside (or inside) the organization with a direct or indirect interest in the firm. Stockholders, financial institutions, and government agencies are examples of external stakeholders. Information exchanges with these groups include financial statements, tax returns, and stock transaction information.

Information System

A combination of hardware, software, infrastructure and trained personnel organized to facilitate planning, control, coordination, and decision making in an organization.

Types of Information System

- transaction processing systems
- management information systems,
- decision support systems,
- executive information systems



Components of an Information System

- The people who operates the system and perform different functions
- The procedures, both manual and automated/computerized, used for collecting, processing and storing data about the organization.
- The data about the organization's business processes.
- The software used to process the organization data.
- The information technology infrastructure, including computers, peripherals devices and Information communication technology (ICT) devices.