

# Chapter x-Information System

Group 3

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# Introduction

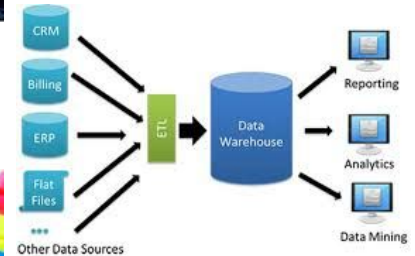
What is Information system?

- information system is an academic study of systems with a specific reference to information and the complementary networks of hardware and software that people and organizations use to collect, filter, process, create and also distribute data.



There are 5 components of an information system:

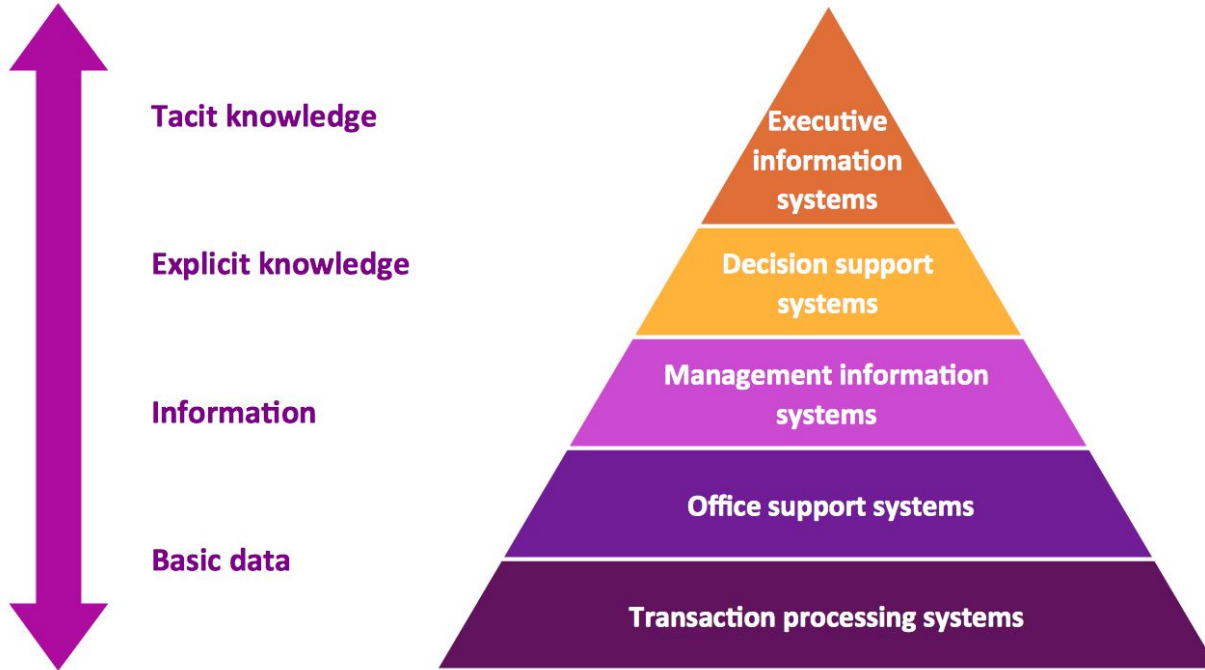
- Hardware
- Software
- Telecommunications
- Databases and Warehouses
- Human Resources and Procedures



# Types of Information system

- Executive Information system
- Decision support system
- Management information system
- Office support system
- Transactions processing system

# Pyramid Level Model



# Transaction Processing System

- TPS collects, store retrieve very accurate and routine information.
- Provides specific reports from number of sales, transaction dates and so forth.
- A basis for modern accounting system

# Office Support System

- A system which functions to ease up communication between departments within a company
- It integrates computer servers of every users in a company.
- The example: email, video conferencing system.

# Management Information System

- A computer based system that converts data from TPS to information in the form of summarized reports.
- This provides manager the information/data needed in order to run an organization effectively.
- It produces predetermined reports: Periodic, exception and demand reports.



# Decision Support System

- A computerized program used for determinations , and desicions of action in an organization by analyzing massive amount of data to solve problems.
- DSS helps manager in decision making of an organization.
- Parts of DSS
  1. User
  2. System Software
  3. Data
  4. Decision models

# Executive Support System

- > It is made for top managers of a company.
- > Its purpose is to summarize a company's data/performance and it is made Easy To Use for managers.
- > Combination of data from TPS and MIS with other external data.

# Management Levels

> Has 3 levels: Top, Middle, and Supervisors

1. Top managers: Needs highly summarized information from within and external source

Responsible to make long range planning.

2. Middle managers: Need summarized weekly/monthly information

Responsible for control planning and decision making.

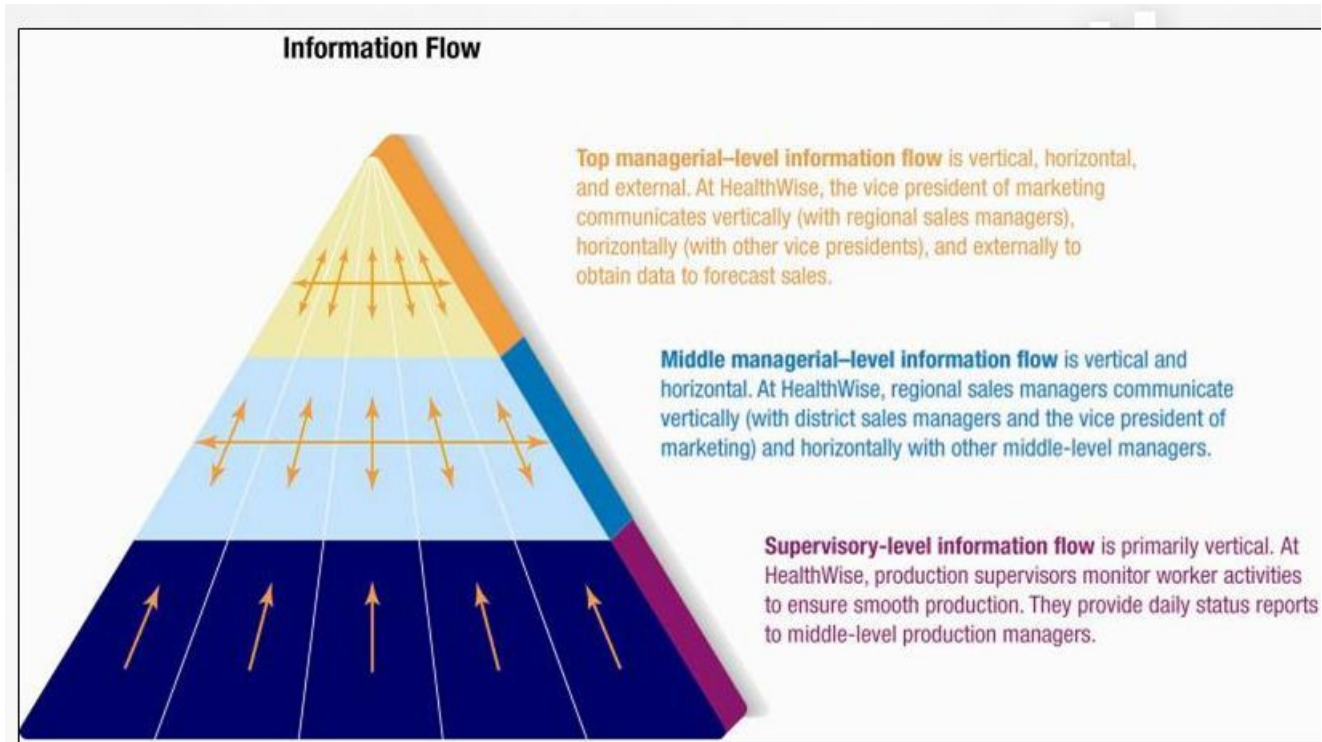
3. Supervisors: Responsible for day to day operational and needs detailed information day to day.

# Information Flow of Management Levels

> Each level has its own information needs.

1. Top Managers: Vertically( from positions below) and Horizontally( external, from other vice president)
2. Middle Managers: Vertically (from other district managers and vice presidents) and horizontally with other middle managers
3. Supervisor: Vertically (provide reports on a daily basis to mid managers)

# Organization information flow



# Careers in Information System

- > Information system managers job

- to supervise and organize the work of programmers, computer specialists, etc.

- make and apply corporate computer policy and systems

- > What employers look for

- Strong technical background, (Master's degree)

- Strong leadership and communication skills

- >Information systems managers can expect earnings of USD 80,000 to 129,500 (anually)



# Slide For each member

**A. Fauzan slide 1-3**

**B. Nabil slide 4-6**

**C. Afiq slide 7-9**

**D. Rey slide 10,11,15**

**D. Arsyad slide 12-14**



# Sources

[-https://www.mindmeister.com/37310006/5-types-of-information-systems](https://www.mindmeister.com/37310006/5-types-of-information-systems)

-Copyright © 2010 by The McGraw-Hill Companies, Inc. All rights reserved. Source: <https://slideplayer.com/slide/5170223>  
-[https://www.investopedia.com/terms/d/decision-support-system.asp#:~:text=A%20decision%20support%20system%20\(DS,problems%20and%20in%20decision%2Dmaking](https://www.investopedia.com/terms/d/decision-support-system.asp#:~:text=A%20decision%20support%20system%20(DS,problems%20and%20in%20decision%2Dmaking)  
-<https://www.britannica.com/list/5-components-of-information-systems>  
-<https://artofservice.com.au/blog/what-are-the-six-types-of-information-systems/>  
-<https://chiefexecutive.net/bad-software-could-be-hurting-your-business/>  
-[https://www.google.com/url?sa=i&url=https%3A%2F%2Fblog.iggeo.com%2Fnetwork-optimization-for-telecommunication-and-cable-providers-in-the-age-of-digitalization&psig=AOvVaw15k9udtLLAk\\_2Ez7Y8TZGS&ust=1605266530142000&source=images&cd=vfe&ved=0CAMQjB1qFwoTCIDznYvy\\_OwCFQAAAAAdAAAAABAD](https://www.google.com/url?sa=i&url=https%3A%2F%2Fblog.iggeo.com%2Fnetwork-optimization-for-telecommunication-and-cable-providers-in-the-age-of-digitalization&psig=AOvVaw15k9udtLLAk_2Ez7Y8TZGS&ust=1605266530142000&source=images&cd=vfe&ved=0CAMQjB1qFwoTCIDznYvy_OwCFQAAAAAdAAAAABAD)  
-<https://www.monitis.com/blog/top-5-data-warehouses-on-the-market-today/>  
-[https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.duq.edu%2Fwork-at-du%2Fhuman-resources-home%2Fhr-operating-procedures-&psig=AOvVaw26\\_AeaPrb-u690QUd3oP3l&ust=1605266688817000&source=images&cd=vfe&ved=0CAIQjRxqFwoTCNjM\\_8jy\\_OwCFQAAAAAdAAAAABAD](https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.duq.edu%2Fwork-at-du%2Fhuman-resources-home%2Fhr-operating-procedures-&psig=AOvVaw26_AeaPrb-u690QUd3oP3l&ust=1605266688817000&source=images&cd=vfe&ved=0CAIQjRxqFwoTCNjM_8jy_OwCFQAAAAAdAAAAABAD)