



# Data and Information System

NATHANIEL MIRANA

# Data Vs. Information

## Data

- ▶ is a group of unrefined, basic information, it is more or less unfiltered information.
- ▶ Data is a resource that we can retrieve, manipulate, and send to someone else, be it a physical representation or digital.
- ▶ Data can be rearranged or sent without difficulty, due to it being the most basic information.

# Data Vs Information

## Information

- ▶ it is the more refined state of data, it can be used in specific applications, like research, articles, etc.
- ▶ Information has a shape, and it can be processed, accessed, generated, and created.
- ▶ It is formalized, captured, and packaged to make new information.

# Information System

- ▶ It is a subject that is embedded in Information Technology, IS is a Socio-technical subject as it accommodates the end user, how their system is implemented in an organization, and how well it's integrated.

# Different Types of Support Systems in Information Systems

- ▶ 6 Major types of Information Systems
- ▶ Transaction Processing System(TPS)- a system that helps the organization perform daily tasks. Transactions like withdrawals, deposits, billing, etc. used for simple actions.
- ▶ Office Automation System(OAS)- Is a system used for official transactions, mostly inside the organization of all levels, but mostly subdivided into managerial or clerical operations.
- ▶ Knowledge Work System(KWS)- The knowledge work system aids workers in creating and disseminating information using graphics, communication, and documentation management tools.

# Different Types of Support Systems in Information Systems

- ▶ Management Information System(MIS)- An administrative tool that tracks day-to-day performance of employees, ensuring that all are in working order. It also aids middle managers and supervisors in making decisions, planning, and controlling the workflow.
- ▶ Decision Support System(DSS)- This is a system built for middle managers, and it gives ample information to keep them informed, there are multiple designs for DSS but one goal is to process the information, summarize, and make things easier for the middle managers.
- ▶ Executive Support System(ESS)- A system that is the overall summarization of the lower systems, it tracks the performance of the employees, and customer satisfaction enabling high-level decision-making.

# Analysis/Reaction

- ▶ I learned that information and data are mostly used in the same way but have different implications mostly that data is unrefined and needs to be analyzed to make it into workable information to use in other applications, and also IS is a very broad subject as it tackles both Technical and Social Aspect of the job. Lastly, there is a lot of Information system that specifically targets every level of the hierarchy to make things easier for people to decide and a collaborative system that make things simpler.

# Citation

- ▶ <http://www.tlainc.com/article134.htm>
- ▶ Zins, C. (2007). Conceptual approaches for defining data, information, and knowledge. *Journal of the American society for information science and technology*, 58(4), 479-493.
- ▶ S. K. Boell and D. Cecez-Kecmanovic, "What is an Information System?," 2015 48th Hawaii International Conference on System Sciences, Kauai, HI, USA, 2015, pp. 4959-4968, doi: 10.1109/HICSS.2015.587.
- ▶ <https://www.simplilearn.com/types-of-information-systems-and-applications-articlehttps://www.simplilearn.com/types-of-information-systems-and-applications-article>