Organizational Structure and Technology

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Opinion

Structure is required by both an organisation and its technology. An organization's architecture is similar to that of your information technology networks and systems. Businesses arrange themselves to achieve their objectives and complete all of their tasks. To be fully viable, an organisational structure must account for technologically connected activities, infrastructure, and functions. An organisational structure is defined by the groupings of a company's responsibilities, positions, and operations; an organisational chart is a visual representation of a company's structure. The positions within an organisation, the roles they play, and the links between them – including supervisory relationships – are all depicted in charts. Companies can acquire clarity on what they are doing now, their ideal functioning, and how they can attain it by focusing on organisational structure and design. Information technology is crucial to a company's success. Data on finances, company secrets, personal information, and – in the case of banks, hospitals, and insurance firms – data that corporations have a legal obligation to protect – are all stored on networks and computers. Too much access to a company's data by network administrators and computer specialists might be a security risk. As a result, many firms design IT positions so that no single individual has unrestricted access to critical systems and data.

Companies that use many, complex computer and technical systems frequently find it necessary to separate their IT workers into specialisations. One system may necessitate unique programming and support that only a few individuals are aware of. Others, such as communications firm servers and switches or hospital networks, may require round-the-clock monitoring by trained employees. These demands must be considered by organisational structures, which must specify how the organisation will address them. Organizations typically choose to arrange their different operations into separate divisions when they grow and establish new areas of business or acquire other companies. Typically, divisions operate independently, each having its own structure, leadership, and strategies, while reporting to a single top management. Divisions typically have distinct demands and systems, making it more difficult for a centralised IT department to handle them all. As a result, rather of specialising in a single type of software or hardware and providing support across the organisation, companies may prefer their IT employees to be generalists with a keen understanding of the needs of each division.

Hospitals must operate with extreme precision, providing high-quality services 24 hours a day, seven days a week. Organizations with these criteria typically choose a vertical organisational structure, with multiple layers of management and the majority of the personnel working in highly particular, narrow, low-authority roles. The multiple layers of administration are designed to ensure that no single person can significantly disrupt the system. This framework also ensures that activities are completed precisely and accurately.

We are surrounded by technology. It's grown so commonplace that we hardly notice it. But, in terms of the workplace, what effect has all of this technology had? In this lesson, we'll look at how technology has impacted the workplace, with a particular focus on two topics: automation and information technology. Let's start with some of the major ways in which technology has influenced the workforce. Organizations are affected by technology in a variety of ways. For one reason, it might have an impact on an organization's structure. This entails providing employees with training on new technology. This frequently necessitates the addition of more information technology (IT) specialists to a company.

It can also refer to alterations to an organization's physical layout. Switching from hand filing to computers, for example, may eliminate the necessity for file clerks. An office's layout is altered as a result of this. Organizations can become more efficient as a result of technology advancements. While modernising technology may be costly at first, it can save organisations money in the long run. Let's speak about the specific procedures that technology has brought about now that we've discussed some of the wider ways that technology affects enterprises.

References

1. Herterich, Matthias M., Falk Uebernickel and Walter Brenner. "The impact of c}'b.er-physical systems on industrial services in manufacturing" *Procedia Cirp* 30 (2015):323-328.

2. Bormann, Rene, Philipp Fink, Helmut Holzapfel, Stephan Rammler, Thomas Sauter-Servaes and Heinrich Tiemann. *"The future of the German automotive industry"* Friedrich-Ebert-Stiftung Shanghai Representative Office, (2018).

3. MacAskill, Kristen, and Peter Guthrie."Organisational complexity in infrastructure reconstruction-A case study of recovering land drainage functions in Christchurch." *Inter J Proiect Manaq* 35 (2017):864-874.

4. Klein, Burton and William Meckling. "Application of operations researchto development decisions" *Operations Research* 6 (1958):352-363.

5. Yeo, KT. "Systems thinking and project management-time to reunite." *Inter i proiect manaq* 11(1993):111-117.

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