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## “Computers and Management Science” – its effect on global business market

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### Abstract

Globalization has completely altered the way in which the world turns. 21<sup>st</sup> century is the century of information technology (IT) and globalization. Information technology is playing its significant role in the betterment of the business shops. The Barriers that once hindered our ability to communicate and interact with the great unwashed across the world have come. Globalization has become embedded in all fields:

Commercial enterprise, government, economic, social. In this paper the role of computer and management science on global business will be discussed and in particular, the impact of Computers and Management Science on the global business environment. Equally well, over the past few decades' advancements in information technology has presented a profound on the global landscape as easily as on the Progression of globalization. The argument will be gifted, that innovation in information technology has been a major driving force behind globalization of the business market and that information technology has now become a central part of a corporation's global business strategy.

This paper explores another very important character of IT on the global business marketplace, i.e., IT help to redefine the visual sense of world-wide markets which is the primary component of the worldwide corporate strategy. The report applies the archival method of surveying related literature (theoretical, applied and empirical) and organizing and presenting the suggestions for future empirical research which enables the medium level business to the next stage. The purpose of this project is to outline the importance of Management Science and Computer for the intent of job developer.

**Keywords:** Information Technology, Global management, Vision, Corporate strategy, Global, Supply Chain Management.

### 1. Introduction

Computers make it softer to start a small patronage. You can get down any small jobs like buying or selling any product, writing a blog while just sitting on your couch. You only require a computer and an Internet connection. You can also perform administrative tasks like paying your business invoices, keeping tax records and even doing a payroll on your computer, as well as marketing your job online. Information processing systems provide increased opportunities for where you can operate your job. If you have a laptop data processor with wireless Internet capability, you can carry on business in airport lounges, hotel suite, public libraries or WI-Fi coffee shops. This case of mobility also means that business operations are not restricted to the typical business hours, allowing for greater flexibility. It will awesome if you are using Management Science while starting your small level business. Like Retail and wholesale business now small business also have increasingly come to rely on computers' advanced ability to preserve track of inventory and assist in ordering more when funds become law. In fact, one of the key approaches to the success of retail giant Wal-Mart was real time ranking in which Wal-Mart's computer systems place orders for goods as they are required. This permitted them not to make too much or too little of any particular item as well as to save on the workforce required to handle much of the provision chain. However, businesses of all sizes use inventory management and point of sales strategies to do smaller scale versions of the same thing. A business not involved in electronic communications -- particularly email -- closes off one of the largest communication channels today. Clients, customers, marketers and business partners use email to create contact and transact business. Some companies go beyond email and actually encourage the use of in-house instant messaging as a method of communications between employees and departments. Net access is a business communications lifeline. Net-enabled computing allows you to receive orders from customers, place orders with suppliers, research businesses, explore business ideas, communicate with government positions and even manage your business banking. In increase, online presence with at least a website is critical to legitimizing a small business.

In increase, online presence with at least a website is critical to legitimizing a small business. Many companies start out further and participate in social networking sites for selling and branding purposes. Wielding a small commercial enterprise can be an intimidating undertaking. Entrepreneurs have great ideas and plans, but they sometimes miss the proper management skills for daily activities. Taking a few essential operational techniques can greatly enhance a small business's operation and reverse it into a highly successful society. Among the most significant compositions of small business management are the business information systems (BIS), hiring employees, and continuing business education. A commercial enterprise information system (BIS) is the software a small business uses to burn through its company

financial data. BIS includes accounting, payroll, and accounts payable, accounts receivable and purchasing. This software allows company management to extrapolate information from different parts of the business. Managers analyze this information for profitability or effectiveness. A BIS is chosen based on the company operations and the amount of data that will need to be placed in. Additionally, the business industry will likewise find out the needs of the BIS. Most commercial software is customizable based on industry; manufacturing, retail, services, and consulting businesses can engage in a BIS suited for their needs. Most small commercial enterprises will require additional help to aid the entrepreneur in creating a successful company.



## **2. Advantages and disadvantages of Using Computer in Small Business:**

Computers can have a positive and negative impact on small-business productivity. The 24/7 access to the Internet means that you can increase your number of work hours, and tools like email and instant messaging allow for comfortable communication. Nevertheless, the Internet can also be a distraction for you or your employees, as it offers the temptation of shopping instead of exercising. Proper training in computer system applications and usage is decisive to the success of using computers in small jobs, states Questia Media America. As a consequence, business owners or employees who have difficulty learning a new computer system or are immune to its implementation may require extra preparation or coaching. This learning curve can temporarily cut the business & productivity and service layer.

## **3. The effect of applying Management Science in a small business:**

### **3.1 Advantage:**

Management skill is principally concerned with researching how a small business can manage it with the intent to maximize productivity. Through adopting a strategy that allows assimilation of scientific thought, the handlers and owners solve or prevent the scope of problems and issues arising from managerial weaknesses, which can be primary reasons small firms are regarded as marginal or unprofitable businesses. The heart purpose of the management science approach is to compare possible outcomes. Businesses that don't put on quantitative management perspectives run the danger of remaining small in terms of the number of employees, production ratio and market share. Small-business owners and managers can use the management science approach to design specific measures that identify and evaluate the effectiveness of certain procedures or conclusions. For

example, they can acquire basic information processing system applications that can help foresee and analyze some management issues that may arise at several layers of the organization. Managers use the techniques and legal documents of this quantitative approach to management to plan, coordinate, lead and control operations within the workplace. For the society, the approach can result in increased production, industrial peace and benefits of differentiation. Conversely, workers might be more motivated and experience improved working conditions because the approach focuses on maintaining clean and safe workplace environments and involves differential wage systems.

### **3.2 Disadvantage:**

Employees play an integral role in any organization, and they are the ones most affected by the management science approach. One drawback of this plan of attack is that employees have little say in the management process. Decisions are handed down after a recommendation from the analysis point is selected. Also, the atomization of work by giving out individual tasks may not work for small businesses, because it hinders any team-building interventions. Another disadvantage is that the issues entailed in some scenarios can't be evaluated; therefore, managers might quantify the pieces that they can and draw conclusions. The conclusions they arrive at may not produce optimal solutions because all cases were not considered. Advancements in information technology (IT) and the rapid globalization of small business units, both are realities and opportunities of the 21<sup>st</sup> Century. The term information technology refers to techniques and facilities designed to enable the transfer, storing and processing of data. This includes data processing systems for mailing services, telephony and fax networks, data centers and libraries. The internet is definitely one of its aspects. Consumer markets get more global every day. Many foreign Brands like Microsoft is

popular not only in the USA but also easily known across the world. Manufacturing companies have found the prospect of globalization. The Uses of Computational & Internet has further linked the overseas suppliers of inspection and repairs and goods and their buyers. Net traffic is increasing day by day and e-business is in hyper growth.

#### 4. Impact of Information Technology on Business:

In the past few sections we have discussed about the merit and demerit of using computers and applying management science in small business e sectors and its effects on society and its relationship with business. The single topic I have yet to move over is how exactly computerization of the small commercial enterprise is able to make this much of an impact on the broad landscape and the key catalysis, information technology.

Information Technology really came into being in the latter part of the 20th century with advances in data technology. Information technology was the driver in creating the worldwide integration of various global business markets. It would again be near impossible to discuss every influential technological advance over the past 30 years, but there are a select number of advances that really have suffered a monumental impact on the progress of globalization and its relationship with business.

Rise of the Personal Computer-The rise of the Windows-based PC, which popularized personal computing, eliminated another important barrier that was restricting globalization: the limit on the total of data that an individual could obtain, author, modify, and distribute. The PC allowed individuals to author their own digital content and share them with places all round the world.

What soon followed the PC was the innovation of the dial-up modem in which users could join up to a phone line and send e-mails through service providers.

Separately, advances such as the PC, fax, and the dial-up modem were important improvements, but when people started combining the PC, facsimile machines and dial-up modems together in the mid 90's, they produced a novel program that took off a worldwide information revolution. This common platform gave individuals, both reach and scale, as they could create and distribute information in so many different ways and send their information to so many more people around the world. The Conception of the World Wide Web – Perhaps the greatest influence on the advancement of globalization was the foundation of the World Wide Web in 1991. Before the World Wide Web, we bore the internet which connected the globe, but with the World Wide Web individuals were at present more than ever able to threaten their own digital content for anyone across the world to optic cable system was implemented in 1977, made of pure glass arranged in piles that could be employed to carry digitized packets of data. The most significant benefit of the fiber-optic cable is that it possesses a much higher bandwidth signal capacity than other cases of transmission lines.

#### 5. The Future:

1. The future of information technology is exciting. As we approach the twenty first century, experts in the field hypothesize that there will be more "natural communication" between humans and computers. In order for people and computers to collaborate, we must "interface" or transmit as efficiently and naturally as possible. Interfaces are important because that is where people get into contact with the machinery of the Information Marketplace. Some experts, such as Michael Dertouzos at MIT, argue that the Information Marketplace

will not achieve its full voltage until the interaction between man and machines become closer to human-to-human communication.

2. Besides keyboards and mice, today's interface devices include trackballs, joysticks, hand held styluses for handwriting and drawing, microphones that pick up speech and both still and television cameras for pictures. Thither are many other devices being produced close to the globe? Scientists and technologists are presently working on gloves that let the computer recognize the accurate motion of your digits. Experts are also working on glasses and head tracking helmets with mechanical, electromagnetic and optical gadgets that track eye and head move so that the computer knows where you are facing. All over body suits that convey the movements of the body and limbs are not readily available, but they have been built (in clumsy forms) and will undoubtedly come along in the future.
3. 3 These same devices will feed information back to you, flooding your senses with spoken information, three dimensional video, audio and "body or"- tactile impressions that will run from the titillation of a cats whisker to being pushed into the rear of your chair. These state of the art interfaces will forever change the way we shape and "re-create" in the close future. These new interfaces may allow individuals to play simultaneously with colleagues about the globe, order food from a French waiter in French, still though you don't recognize the language and even take dance lessons at home from an instructor across town. The application possibilities for these interface technologies is mind boggling.
4. This will happen for two reasons:
  - 1) Speaking is natural - the bulk of the time we communicate with one another merely by talking.
  - 2) Spoken language is the interface technology most ready to explode for practical applications. It is open to everyone involved that developing a system that enables computers to understand speech will dramatically expand technology's role in our everyday lives. The applications for a language identification system would be far reaching.
5. For instance, a navigational-aid program in the car could help you find your path through an unfamiliar city as you ride. Another language recognition system on your home computer could guide you through a maze of potentially useful services. It would be convenient for speech systems act as travel agents assisting consumers to book flights or make car and hotel bookings.
6. A telephone system that translates language is likewise inside the reach of speech-understanding technology. The arrangement would run like this: say you want to shout out from the United States to an associate in South Africa. After you joined with your party, you would speak into your phone in English and you would instantly hear a computer generated paraphrase of what you said, to ensure the computer understood you. At the same time, the machine would transform and present your sentence to the other party. If the computer did not sympathize, you would discover the incorrect paraphrase hit an abort button and attempt to communicate your message with a different sentence.
7. Spoken language understanding systems could well dominate tomorrow's interfaces. Building up a proficient system has been an engineering challenge however. For decades computers have been notoriously poor at comprehending ordinary human language. Many skeptics

have written off the possibility of real conversation between people and cars. Engineers, scientists, and linguists are still studying the problem yet.

## 6. Concluding Remarks:

The world has now become a worldwide village. Boundary lines and barriers are moving to be flown. In club to function effectively in an environment of borderless markets, global business has to manage their corporate philosophy in order to hold in this environment of management science and data engineering. Information technology as well as management science is a great truth of this century and it delivers a large impact on the development of small scale commercial enterprise. This report talks about the use of data engineering and Management Science for the growth of the small business sector. Those small businesses which are implementing IT and management science are enjoying a competitive advantage over the societies which don't act the same. In this report, several areas of utilizing IT and management skill in the area of small scale industries and occupation are taken and discuss how IT and Managerial impact has already helped or can assist in the development of small concern. Previous literature has been considered in this field. Ace of the limitations of this work is that it is based on secondary information. In future, primary data could be applied to back up the argument that IT and management science has a significant part in the development of small businesses.

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