The Evolution of Technology for Financia Economics and Accounting Profession

Harbaksh Moolchandani* and Jagannath Ri-

ABSTRACT

Every accountant knows that accounting is the language business. That language has gone through many changes through the ages. But through all the changes accounting technology has always played a part in making the job just little easier. As a knowledge technology increased so person ability to analyze statistical value. Technology advancement have enhanced the person the ability interpret data efficiently and effectively. By this person has becomes advisor.

The primary goal of financial economics and accounting is promote various development and technological changes throu different factors contributed to accounting and economics scenar business functions affects accounting and economics, rationalizational Liberalization policy of govt. — Emerging issues in economicand accounting, role of information technology in accounting a economics. How it is utilized and useful for society and public in and latest amendments through various statutory laws.

Equatories Financial Economics** Accounting** Technology**

Keywords: Financial Economics, Accounting, Technology a Accounting Profession.

I. INTRODUCTION

Every accountant knows that accounting is the language of bus. That language has gone through many changes throughout the agest through all the changes accounting technology has always played in making the accountant's job just a little easier. As our knowledges

^{*}St. Aloysius College (Auto.) Jabalpur.

echnology increased so has the accountant's ability to analyze statistical alues. Technology advancements have enhanced the accountant's ability to interpret data efficiently and effectively. He/she now has the ability to atterpret the language of business with such ease that the accountant has ecome a corporation's most trusted business advisor.

We can start way back in the beginning with the invention of the

CCOUNTING CHANGES THROUGH THE AGES

bacus, used to keep track of calculations in business. Although we didn't all it technology, we can go back centuries with several attempts to build dding machines to help an accountant with mathematical solutions. After ne first working adding machine, came the invention of the calculator or information accuracy. As technology advanced so did the speed and roficiency of the accountant's job. But even with adding machines and alculators the accountant still had to keep track of the businesses' functions with paper entry. The process of identifying, measuring, and communicating nancial information was documented in the form of paper records, columns f numbers and hand written statements. An accountant had to be a very nethodical, detail oriented person.

Towards the end of the twentieth century the accounting profession egan to take on a whole new look. Computers and accounting software as changed the industry completely. With programs such as Microsoft excel an accountant now had an electronic spreadsheet. The need for dding machines, calculators, ledgers and pencils was eliminated. The ob became less tedious with less of a margin for error. The core training or accountants which included the basic accounting, auditing and tax reparation was a thing of the past. With use of the computer an accountant an now perform statistical accounting or forecasting analysis with greater ficiency. Accounting technology has eliminated the number cruncher sitting the eliminated and esk working on people's taxes and has allowed the accountant of find new challenges with much more to offer then decades ago when ley relied on an abacus for a calculating tool.

Business, the Intranet and the Extranet

Today's accounting professionals who understand the importance of e Internet will use the Internet for e-business. They use the Internet to cecute major business processes in the enterprise. Electronic business -business) allows the accounting firm to coordinate activities for internal eragement and combines the clients' relationships with the use of digital

networks. Enterprise applications can be used on a small internal networks called the Intranet. The Intranet can distribute information to employ, such as corporate policies, and programs. It centers on a portal which is single point of access. Information can come from several different systems using a Web interface. They can feature such things as e-mail, interned ocuments such as the Code of Ethics, and a search tool. It is a good mean of communication within an organization. Accounting professionals calso communicate outside the organization with Web technology using

the creation of an Extranet. This allows the clients to have limited accelinking to a portion of the accounting firm's Intranet to import and exp files back and forth. Linking electronically increases efficiency and continuous continuous efficiency and continuous efficiency.

Diversified Opportunities

Information became available to an accountant with the click of mouse. This changed the nature of an accountant's work. More do

came time for write-ups and reconciliation processes.

down on travel costs ultimately reducing operational costs

were opening with the use of information technology. This diversifi opportunities in the field of accounting. New specialized areas he developed. Business owners started looking to professional accountage.

for technology advice. Accountants became more knowledgeable about which financial systems worked best. Accountants were becoming the staff and trusted advisors. An accountant's role was to help these business become more productive. Integrating the client's technologies proper with the accountant's systems made the practice more efficient when

Input, Processing and Output

Not only does the client need to have proficient financial process but the accountants themselves need software programs that keep transfer of clients accounting information with improved efficiency. Accountance work with systems programmers to develop a digital process that work with systems programmers to develop a digital process that work with systems programmers to develop a digital process that work with systems program the processing cycle gives

data is input into the computer program the processing cycle gives computer instructions on how to process the clients' data. This enable to change the data into useful information. Output, transfers the process information to the accountant. He/she can analyze the data and interpreted the clients' financial statements so as to increase the client's succease. All the clients' records can be stored and organized on an accountant.

omputer system. Rather then bringing a suitcase full of file folders.

lient's place of business for review, the documents can be carried on an incrypted laptop or organized on an encrypted portable storage device. The accountant has the client's sensitive information protected but yet at its/her fingertips, ready to perform statistical, accounting or forecasting malysis. The program is stored on the computer hard drive and the data is used to prepare the clients' taxes. The need for a file storage room has been eliminated.

To go a step further, cloud computing is becoming popular today. It

loud Computing

scalled cloud computing because the name represents the cloud symbol sed in flow charts, representing the Internet. It is a service that is being rovided over the internet to permanently store data and use business applications over a remote server. Software-as-a-service (SaaS) is a web assed service. The data is permanently stored in huge data centers shared by many other users. The accountant would not have to purchase anything. He/she would pay a monthly subscription so he/she would only pay for what is needed. It would free up space on the accounting firm's hard drive while the firm rents space from giant computer centers. However, the accountant should be aware of the security issues involved when making decision to use this technology. Cloud service providers are obliged to provide a safe environment to store the organizations sensitive information is accountants are obliged to understand the risks.

dvancements of Information Technology

dvancements that information technology has made on the accounting industry. Accountants now have to have a high level of computer and technical kills. These skills have become part of the knowledge, and abilities of the ecounting professionals. In its report the American Institute of Certified Public Accounts (AICPA) cities that, "The knowledge, skills and abilities ecessary for the entry-level accountant now include the application and integration of information technology into the accounting process, as well is financial and managerial accounting principles". From this research, not only does an accountant need to have a broad range of accounting mowledge and a strong ability to apply accounting principles, government egulations and interpret tax laws; they must also have strong skills in information technology, to be able to merge accounting with information ystems. These accountants will be in greater demand by the profession.

Accountants were pushed towards acquiring new skills due to the

Enterprise Resource Planning (ERP) Systems

The twenty first century accountants have strategic software application place to prepare for the future; such as Enterprise resource planning (E systems. This is a software program that integrates different department the organization onto the same system. This makes data available diver and supports activities between the different departments. The informatis made available through a common central database and shared three functional areas such as; finance and accounting, sales and market human resources, and manufacturing and production.

Supply Chain Management (SCM) Systems

Another strategic software application is the Supply chain manager (SCM) system. This helps businesses manage relationships with a suppliers. According to the authors of the textbook, Manager Information Systems, Kenneth and Jane Laudon the definition of Supchain management is, "Information systems that automate the flow information between a firm and its suppliers in order to optimize planning, sourcing, manufacturing and delivery of products and service. This is an interorganization system because the flow of information crossover organizational boundaries "Supply chain management is all as having the right product in the right place, at the right price, at the right and in the right condition". Supply chain management has been an important area in many organizations.

There are quite a few demands of a SCM such as; planning a managing procurement, sourcing, and product logistics. These syste require financial expertise to run them. The financial and control aspect of the SCM organization needs to be monitored and supported by a state CPA needs to monitor the entire supple chain, beyond the corporatiself. John A. Kruglinski wrote in the Pennsylvania CPA Journal, "Supplied in finance positions typically require a strong background in invertionan agement and cost accounting, along with other skills, such as contained capital expenditure evaluation". In order to meet the demands of Supply chain management system a CPA, with a standard of excellent financial knowledge and competencies; superior managerial ability is needed to oversee the operations and facilitate the processes.

IT Governance

Many doors have opened for a professional CPA who is proficient these systems. Because information technology takes on a major part

running a successful organization the IT department needs to be managed. This manager needs to oversee that the information technologies support the organizations' strategies and objectives. The organizations' IT systems must be ahead of the competition, they must be financially responsible to the organization, they must be secure with a backup plan for failure and they must be in compliance with effective controls. Not only must the IT systems support the organizational objectives but the organization must be in compliance with government regulations within the IT Infrastructure. The IT Governance concept is promoted by professional organizations such as, the IT Governance Institute (ITGI) which was established in 1998 and first published the IT Governance framework in that year.

MANUAL ACCOUNTING VS. COMPUTERISED ACCOUNTING

Accounting is a way business owners manage their company & financial information. Business owners use accounting to record, report and analyze their company & financial information. Companies often generate several pieces of financial information from business transactions, and compile this information into general ledgers and journals. Historically, accounting was a manual process using paper books and documents for financial information. Business technology has created significant advances in the area of financial management and accounting software.

History

Accounting is several centuries old. Luca Pacioli, an Italian friar from San Sepulcro, is generally known as the father of accounting. Pacioli is credited with developing the double entry bookkeeping system in 1494 using debits and credits to manage a company & financial information. His system included ledgers and journals where financial information was kept relating to business transactions. Pacioli & accounting system is still in use today, even by the various computerized accounting programs in the industry.

Facts

Manual accounting uses several paper ledgers and journals where accountants record financial information. The general ledger includes miscellaneous transactions and the aggregate balance of all subsidiary ledgers and journals. Manual accounting is very detailed, since accountants must carefully enter information into physical books. Computerized accounting uses software programs designed from traditional manual