

Latest information technology trends defining the world

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Abstract:

We use the term information technology or IT to refer to an entire industry. In actuality, information technology is the use of computers and software to manage information. In some companies, this is referred to as Management Information Services (or MIS) or simply as Information Services (or IS). The information technology department of a large company would be responsible for storing information, protecting information, processing the information, transmitting the information as necessary, and later retrieving information as necessary.

1.Introduction:

Information technology is concerned with improvements in a variety of human and organizational problem-solving endeavors through the design, development, and use of technologically based systems and processes that enhance the efficiency and effectiveness of information in a variety of strategic, tactical, and operational situations. Ideally, this is accomplished through critical attention to the information needs of humans in problem-solving tasks and in the provision of technological aids, including electronic communication and computer-based systems of hardware and software and associated processes. Information technology complements and enhances traditional engineering through emphasis on the information basis for engineering.

The analysis of information systems is vital to all organizations. The structure of most organizations and information systems technology are the "Linking Pins" to organizational effectiveness. There is a reciprocal nature of the relationship between management and everyone else with selecting, enacting, and retaining information using technology. Improving information technology provides concrete explanations of communication. Information systems improvement deals with interdependency goals. With technology and its improvements individuals who were once strangers can become linked in ways unimagined prior to the use of modern technologies from the Stone Age to the chip.

2. History:

The back-story of information technology precedes the invention of the computer. The abacus, used by Asians, Egyptians, Romans, and the Greek can be termed a source of information technology. Calculators, the first mechanical one built by German polymath Wilhelm Schickard, or the slide rule, developed in 1622 by William Oughtred, also comes under the heading of information technology. Another example would be punch card machines, expanded upon by IBM in the early to mid 1900's, qualifies the term information technology

3: Advantages of Information Technology:

The advantages of information technology are many. True globalization has come about only via this automated system. The creation of one interdependent system helps us to share information and end linguistic barriers across the continents. The collapse of geographic boundaries has made the world a 'global village'. The technology has not only made communication cheaper, but also possible much quicker and 24x7. The wonders of text messages, email and auto-response, backed by computer security applications, have opened up scope for direct communication.

Computerized, internet business processes have made many businesses turn to the

Internet for increased productivity, greater profitability, clutter free working conditions and global clientèle. It is mainly due to the IT industry that people from diverse

cultures are able to personally communicate and exchange valuable ideas. This has greatly reduced prejudice and increased sensitivity. Businesses are able to operate 24x7, even from remote locations.

Information technology has rippled on in the form of a Communication Revolution. Specialists in this field like programmers, analyzers and developers are able to further the applications and improve business processes simultaneously. The management infrastructure thus generated defies all boundaries. Among the many advantages of the industry are technical support post-implementation, network and individual desktop management, dedicated business applications and strategic planning for enhanced profitability and effective project management. Advances in web technologies and their growing usage have made the production, distribution, and sharing of information so much easier than what it was only a decade ago. These days Internet has become the most popular way to access news. Busy executives, decision makers and other people taking advantage of computing in work and they find Internet as the best source to gain latest news.

Social media is the use of media as a device for sharing ideas, concepts, messages, or simply entertainment. Media for our purposes will be videos, documents, photos, and slide presentations.

Sites like **youtube.com**, **scribd.com**, **flickr.com**, **slideshare.com** facilitate using these forms of media in order to communicate one to one, or one to many. Every enterprise needs to understand how to utilize these sites in order to be the primary provider of information in the fields of specialization.

Since business is all about connections, social networking is going to change how we sell, how we do customer service, and how we build strong customer relationships in general.

To build a powerful social tech strategy in your organization, you need to be in command of techniques and technologies.

4:User Generated Content:

Never before in history could any individual create a video, presentation, document or photograph and have a way to publish it to the world instantly, and for free.

People now have the power to create any type of media they choose and share it with their friends, or the world in general over the Web.

5.Real time news:

Not only can any citizen with Web access now create and deliver news, but they also

can do it in real time. In the case of television, what we have now learned is that there is a lag time between the news event, and when their reporters get there.

Services like Twitter now allow any witness to news to deliver text and pictures within seconds of the event.

6:Web-based rivers of information:

Today, we can create raging rivers of information that include just about every thought leader on any subject, and we can get this information in real time. Social Tech gives us the tools to construct powerful collections of information that gets pushed to us on any device we choose, and we also have filtering tools in order to help us aggregate and weed out just the important nuggets each day.

7:eCommunities :

People for the first time have an instant ability to find others that have shared interests. Not only can you identify others that have formed a group that is like-minded, you can use services like Ning to instantly setup a group for any specific area of interest. Our new social tech tools can facilitate people communicating and sharing from any corner of the world

8:Microblogging:

Services like Twitter and Facebook have given people the ability to connect to streams of information provided friends and strangers. Each of these streams of information is a unique voice and collection

of information that is delivered in real time.

9:Location based information:

For the first time in history, we have the ability to interact with our environment without driving around aimlessly .

Businesses can also identify where we are and send us information when we are in the neighborhood. We can use our smartphone to identify what we are looking at and bring in information that relates to our location (Augmented Reality or AR). With AR we can completely change how we relate to our current location

10:Crowdsourcing :

We have an explosion of sites like **dellideastorm.com, mturk.com, innocentine.com, crowdspring.com, and logotournament.com** as examples of how work can be completed in the future. Business people are now waking up to the fact that you can get work done over the Internet – often by anonymous sources – for a low amount of money, quickly, and with great quality.

How to improve information technology involves quality planning, assurance, and control. To achieve these goals, practitioners of information technology identify quality standards and satisfy project performance. The activities of information technology should be related to satisfying relevant quality standards. Lessons learned from current technology can improve its performance. Technology

should be improved by meeting customer requirements; and improving technology should be a continuous process. Thus technology improvement should relate to its functionality, features, outputs reliability and maintainability.

Information technology provides remedy to the problem of poverty simply because it presents mankind with a tool for leveraging information and knowledge at a rate and at a level before now unknown. This has implications for not only individuals and communities but for nations. Information technology can be used to search for and transmit local, regional and global best practices in poverty eradication, enhance participation in governance, give voice to the disenfranchised in the society and facilitate new forms of governance, all of which in turn will serve to enhance a country's potential to make positive strides in poverty eradication related efforts.

The information technology and IT enabled services sector and its role in country's economic growth, in terms of its contribution to gross domestic product, exports and employment creation has been steadily increasing. There is a great necessity to find ways and means to improve economic conditions for the betterment of all.

11: References

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