

# Significance of Telecommunication and Skilful Management in Human Development at the Global Scenario

Dr. Dhruv Shankar

(Ex-Lecturer), Department of Applied Science and Humanities, Naraina College of Engineering & Technology & Krishna Institute of Technology, Kanpur, U.P., India

**Abstract:** *Telecommunication technology has been the pioneering locomotive of transmission in the scenario of the 21<sup>st</sup> century that is passing through a revolutionary change at the scale of global range. In fact, modernistic world is flourishing with the scientific and technical modification in which telecommunication and skilful management play a pivotal role with the result of human advancement. Origination of telecommunication has, however, remodelled the process of communication with a thriving and theoretical signification. Consequently, telecommunication has gathered momentum of increment with worldwide enlargement through its intensive infrastructure. Telecommunication – the broadcasting stream of transmission – has become one of the most significant prospects of the human growth sprouting with fruitful vegetation and aggregation. Admittedly, it unites the people of the whole globe under the umbrella of socio-technical uniformity. Moreover, it has intensified the scientific, economic, social and technical aspects of human race renewed with the factors of developmental face. As a result, the importance of telecommunication technology has been perceived in almost all multidimensional sectors that are surmounting through a cyclopean modification of melioration. Although telecommunication technology provides all human beings renovate knowledge of the prospering world, it would not be useful and fruitful in the scarcity of skilful management. As a matter of fact, human life is nothing but a mathematical inquiry that requires skilful management at each and every progressing step. Management whether it is concerned with socio-technical or professional field must be adept and adroit in order that it may be directional, dimensional and reflectional. Thus, this paper, fundamentally, focuses on the importance of telecommunication and skilful management that provide a perfect and purified platform for human development at the international stratum.*

**Keywords:** Telecommunication, management, development, human, significance and skilful etc.

## 1. Meaning of Telecommunication

The word ‘telecommunication’ is the formation of two terms – tele + communication. The prefix ‘tele’ has its origin in the Greek word ‘tēle’ meaning “far off” or “distant” while the term ‘communication’ is originated from the Latin word ‘communicare’ which refers to ‘sharing’. In fact, telecommunication is the process of communication that is carried out between two or more poles, places, or persons with the help of technological means in which electrical signals and electromagnetic waves play a significant role. Shorter Oxford English Dictionary defines the term ‘telecommunication’ as ‘the branch of technology that deals with a mode of communication over a distance, esp. by cable, telegraph, telephone or broadcasting.’<sup>1</sup> Furthermore, telecommunication is ‘the transmission of information, as words, sounds, or images, usually over great distances, in the form of electromagnetic signals, as by telegraph, telephone, radio or television’<sup>2</sup> Mostly, the term ‘telecommunication’ is applied in its plural form – telecommunications as it includes various technological devices.

Thus, the structure of modern telecommunication is formed with the succour of electrical and electromagnetic technologies which involve telegraph, telephone, teleprinter, radio, microwave transmission, fiber optics and communication satellites.

## 2. Major Components of Telecommunication

The system of telecommunication has four major components – telephone, radio, television and internet – on which the foundation of human development is stationed. As a matter of fact, communication plays a significant role in the process of human development. Since the immemorial span of human existence, all the human beings communicate with others what they acquire and require. In ancient days, the proceeding of telecommunication was problematic as there were not proper means of communication. Messages were sent from one place to another place with the aid of human beings only. Pigeon post was utilized for a longer distance and more detailed messages. On the contrary, smoke signals, drums, semaphores, flags and heliographs were utilized for the communication of shorter distance. All these means were very expansive, uncertain and time-taking. Hence, there was an urgent requirement of efficient mode of communication that might minimize time, money and hard labour.

### 2.1 Telephone

In 1876, Graham Bell invented the crude device of telephone which was made up of a wooden frame, a funnel, a cup of acid and some copper wire. This ‘electrical speech machine’ paved the path of communicational superhighway. With the passage of time, the technical amelioration of telecommunication has turned out a wonderful revolution. Nowadays, human beings can communicate with the persons situated at a long distance with the utilization of telephone. The people can talk with one another from one city to

another city, from one state to another state, from one country to another country. Moreover, telephone is an easy and cheap mode of transmission in the comparison of letter writing. In fact, it has become a basic requirement of human race that is running after the technological face of the 21<sup>st</sup> century.

## 2.2 Mobile phone

Mobile phone – a major source of communication between two distant parties – is an advancement of telephonic amendment. It is, nowadays, a medium of multi-oriented deeds absorbing numerous needs. Moreover, it has all the functions of a calculator, a watch, a computer, a radio and a television, and its utilization is significant in every walk of life such as social, religious, political, technical and agricultural etc. In fact, it is a revolutionary means of communicational transmission. Besides, it is cheaper than any other means of transmission that is concerned with the process of conversation or communication. Consequently, mobile phones are used for a variety of growing services such as text messages, e-mails, MMS, Bluetooth device, Internet, gaming, photography and mobile banking. In the process of mobile banking, cash payment is transferred with a secure text message.

## 2.3 Radio

Radio – an astounding invention of Guglielmo Marconi – is the device or instrument which radiates electromagnetic signals through the environment. It is a major source of information, news, music and many other broadcasting programmes concerned with different walks of life. Farmers and workers play it while they are working in their respective fields. Indeed, it is a source of pleasure and prosperity for the poor. In the World War I and II, radio was utilized for military communications. As a result, Germany used to send diplomatic information from one fighting pole to other one through radio.

## 2.4 Television

Television, one of the most amazing inventions of science, was invented by J. L. Baird in 1926. It is a source of telecommunication which is used for transmitting moving images with sounds. Nowadays, it is one of the most important components of telecommunication as it is found in every house whether it is rich or poor. In addition, it is the most fashionable means of communication at both national and international scenario. Simultaneously, it has the vantages of both radio and cinema. It is an essential and confidential means of entertainment, education and many other worldly affairs. Thus, it is noteworthy that human race has surmounted time and space through the television. Now, human beings can see political events, dramatic presentations, musical functions and many other serial demonstrations which are carried out in remote divisions. It is the most powerful medium of audio-visual communication resulting with human melioration.

## 2.5 Internet

The Internet is a worldwide system of international network that is based on a computerized structure. In fact, it is the interlinked system of network that is made up of millions of private, public, business and government networks. It prepares an international platform of collaboration among all the developed and developing countries. The Internet Society (ISOC) was founded in 1992 with the mission of open development and growth so that the Internet might be used for the welfare of the whole humanity. Its members include individuals, organizations, corporations, universities and governments. The Internet has become a powerful medium of information storage and dissemination the world over, crossing every conceivable barrier created by caste, creed, religion and geographical distance. A network designed to share data and resources among several computers, usually personal computers, located in a limited geographical area such as a building or an office is called LAN (Local Area Network) whereas, a network of geographically distant computers and terminals is termed as WAN (Wide Area Network). The information put on WAN becomes instantaneously available to thousands of organisations and millions of individuals.<sup>3</sup>

## 2.6 Computer

A computer is an electronic machine that can work with numbers, words, or a combination of numbers and words to produce data output.<sup>4</sup> As a matter of fact, a computer is one of the most useful inventions of science and technology. This multidimensional device was genuinely brought out by Charles Babbage. Considering the utilities and facilities of a computer, it can be calculated that the present world is moving towards the age of computerization. Many mundane activities whether they are concerned with home or office are carried out with the help of a computer. In point of fact, the computer is a faithful servant of science and technology. In these days, computers are used in most of the offices, shops, factories and industries. Indeed, it is the device that has minimized the global distance and human resistance. Consequently, it can be inferred that the endeavour of human development without the vision of computers is just like to breathe without lungs in the present and prevailing age of science and technology.

In the existing circumstances, human race is passing through the age of science and technology in which the significant role of a computer cannot be ignored. Indeed, computer has become a dominating factor of the telecommunication technology and the managerial activities. Nowadays, all the activities which are carried out with the application of a mobile phone, radio and television may be performed well with the assistance of a computer. All the same, computer is a modernistic approach of human development and growth at both national and international level. With the advent of a computer, the process of telecommunication has become extensively fast and enormously vast.

## 3. Skilful Management

Shorter Oxford English Dictionary defines the term 'management' as 'the action of managing; the manner of

managing; the application of skill or care in the manipulation, use, treatment, or control of things or persons, or in the conduct of an enterprise, operation, etc. or the administration of a group within an organization or commercial enterprise.<sup>5</sup> Similarly, Webster's Encyclopedic Unabridged Dictionary of the English Language illustrates the term 'management' as 'the act or manner of managing, handling, directing or controlling the affairs of a business, institution, etc.'<sup>6</sup>

Skilful management is the praxis of understanding prevailing circumstances and working successfully in order that all the requirements whether they are concerned with the personal life or professional life may be fulfilled. So far as the matter of organizational management is concerned, it is the action that organises and manages the attempts of human beings with the available resources so that the aims and objectives of an administration may be carried out effectively. Besides, the system of management turns around a multi-dimensional parameter that involves planning, organizing, leading and controlling so as to achieve the managerial destination. In fact, every human being is the manager of his own life; if he is expert in managing, his life will glide smoothly and all the prevailing problems will be tackled efficiently and effectively. Now, it is clear that human race is developing and progressing fast with the versatile and fertile measures as a result of telecommunication technology and skilful management.

#### 4. Human Development

Human development is the advancement of mankind that was started with the origination of this universe. It is a major concern of the growing world which is moving forward with the force of both revolution and evolution. United Nations Development Programme defined 'human development' as "the process of enlarging people's choices... lead a long and healthy life, to be educated, to enjoy a decent standard of living as well as political freedom, other guaranteed human rights and various ingredients of self-respect."<sup>7</sup> In fact, human development is nothing but a process of modulating and adapting human beings within the frame of all round maturation. It is a very long and gradual process that took thousands of years and is still progressing towards the pillars of perfection. Since, it is the age of science and technology, human development has taken its intense increment.

#### 5. Conclusion

Telecommunication is the mode of communication through which useful and fruitful information is transferred from one place to another place. In fact, telecommunication technology is the need of today. The major portion of progress whether it is national or international depends upon the advancement of telecommunication. Whereas, management is the process or activity in which any job or situation is controlled or handled. It is perceptible that the process of managing is going on at each and every moment. Indeed, it is not only concerned with profession but also with the progression of every deed that is related to human feat. Admittedly, human development depends upon good management. When we are at home, homely management takes place; when we are at office, official management

takes place. In reality, everyone of us is the director of his own dealings, and if there is anything wrong, it means his directing or managing is happening to be wrong.

As a matter of fact, telecommunication and skilful management are the two basic elements that provide a prosperous background for the amelioration of the human progression. The components of telecommunication facilitate the human complexities which are playing the role of domineering barriers over the probabilities of human advancement. Undoubtedly, the means of telecommunication – radio, television, mobile phone and internet etc. – are the progressing pillars of success for the modernistic world that is, nowadays, surpassing through the tunnel of human betterment. But the technical facilities of telecommunication may be fruitless in the absence of skilful management as it is the fundamental component of human life. Indeed, it is the skilful management which makes all worldly things smooth well with the desired effect of fruitful consequences. Skilful management makes a human being perfect and protective in the different directions of global scenario. In this way, skilful management is the system of dexterous controlling through which all the worldly affairs are tackled and handled systematically. Finally, it is right to argue that telecommunication and skilful management are the two basic tenets on which the pillars of human development are elevated.

#### References

- [1] Lesley Brown, et al., *Shorter Oxford English Dictionary*, 6<sup>th</sup> ed. (New York: Oxford University Press, 2007), p. 3198.
- [2] *Webster's Encyclopedic Unabridged Dictionary of the English Language* (U.S.A.: RHR Press, 2001), p. 1951.
- [3] R. C. Sharma and Krishna Mohan, *Business Correspondence and Report Writing*, 3<sup>rd</sup> ed. (New Delhi: Tata McGraw-Hill Publishing Company Limited, 2005), p. 13.
- [4] *Ibid.*, p.13.
- [5] Lesley Brown, et al., *Shorter Oxford English Dictionary*, 6<sup>th</sup> ed. (New York: Oxford University Press, 2007), p. 1692.
- [6] *Webster's Encyclopedic Unabridged Dictionary of the English Language* (U.S.A.: RHR Press, 2001), p. 1166.
- [7] Human Development Report 1997, p. 15

#### Author Profile



**Dr. Dhruv Shankar** (b. 1976) has carried out his higher education—B.A. (English Language & Literature), M.A. (English), B.Ed. and Ph.D.—from C.S.J.M. University, Kanpur and collected the teaching experience of grammatical, literary and communicative English from S.M.L.K.S.D. Inter College, Naraina College of Engineering & Technology and Krishna Institute of Technology, Kanpur. As a matter of fact, he has got the credit of numerous research articles, four poems and two short stories published in prestigious national and international journals. Moreover, he has contributed, participated and presented papers in some national seminars and conferences.