

Telecommunication services in the world information system

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Abstract

The role of telecommunication services in the world information system is investigated. The basic tendencies and strategic orientations for the further development of the information system of the world economy are considered.

Keywords: telecommunications, information, information system, information and communication technologies

1 Introduction

The development of the world economy and the constant integration processes cannot be explored without the telecommunications sector, which is the main tool for managing the information flows of modern society and the basis of the economy in its modern sense. Each country's information resources are strategic and have the same meaning as raw materials, energy and other resources. Information in today's society is a major driver of economic growth.

2 Overview

Telecommunications is a process, a fundamental means of achieving different goals. In the economic world, telecommunications serve to disseminate information to suppliers, consumers, researchers, analysts, legislators, regulators, and the like. They are present in all processes of economic production and are an integral part of almost any modern business activity, the purpose of which is the production of goods and services for consumers. In the social environment, telecommunications is a means of informing, entertaining and sharing experiences. Telecommunications networks and services allow you to do all these actions over long distances and across a wide range of users.

The introduction of modern computer and telecommunication technologies in almost all fields of activity has led to the formation of a single information space. The acceleration of the rate of creation and dissemination of information, on the one hand, makes it possible to realize intellectual potential in the form of innovation, on the other hand, increases the requirements for the state of telecommunications infrastructure. There has been a rapid development of the information industry in general and of the global information market, in particular, in recent years. Never before has information and telecommunications technology evolved so rapidly.

The impact of telecommunications is manifested in the development of various industries of the shadow economy, increasing the share of intellectual work in the product, the

emergence of new business formats, etc.

Experts prove that the US is a follower of the strategy of innovative leadership in the field of telecommunication services, which is based on the focus on scientific and technological leadership, growth of investments in informatization of society and active development of the corporate sector, optimal interaction of the state share of sectors, state support of state corporations and state support. EU countries are adherents of a social orientation strategy that envisages education and retraining, accessibility to telecommunications for all citizens, funding for science and telecommunications research; creation of trans-European networks of municipal bodies, health care.

The global market for telecommunications services is an integral part of the information and communication market and the global market for services. In an information economy, countries with the most advanced information and communications technology (ICT) sectors have the highest level of competitiveness, as information technologies increase the efficiency of the economy in the long run. As a result of all these factors, a 10% increase in broadband investment increases average annual GDP growth by 0.6-0.7 percentage points [1]. This effect is achieved through direct and indirect influence on the economy of both the state and private business.

Analysts from the International Telecommunication Union conducted a correlation analysis that showed a strong correlation between GNI per capita and IDI. The higher the IDI, the higher the GNI per capita. Therefore, ICT has a direct impact on the well-being of countries IDI 2017 covers 176 countries in the world. The IDI ranking in 2017 is Iceland, with an IDI of 8.98. Changes in positions can be tracked in Table 1 [2].

TABLE 1 ICT Development Index in the World

Place	2014	2015	2016	2017
1	Denmark	Korea	Korea	Iceland
2	Korea	Denmark	Iceland	Korea
3	Sweden	Iceland	Denmark	Switzerland

Progress in the use and development of ICT is continuing in 2020. The steady increase in telecommunication

accessibility is maintained, given the growth in mobile cellular telephony and, more recently, in mobile broadband. The growth of fixed and mobile broadband infrastructure encourages access to and use of the Internet.

3 Decision

Studies of scientists show that telecommunications to the world economy is manifested in the form of development of various sectors of the economy, increasing the share of intellectual labor in the product, the emergence of new formats of business. At the same time, there is a growing scale and widespread diversification of telecommunications companies, accompanied by the shift of telecommunication operators to providing a wider range of users with a wider range of services.

At the same time, the modern developed countries of the world are prioritizing both the current development of the telecommunications industry and the development of appropriate strategic development plans for the future. The introduction of telecommunications into the economic, legal, social and other spheres of society determines the strategic directions of their state support.

References

- [1] Statistic portal *Statista* **E-source:** <https://www.statista.com/>
[2] *Communication industry: figures and facts* **E-source:**

Mobile telephony, landline telephony and Internet access services remain the main segments of the telecommunications market. In recent years, it has accounted for 87.1% of total telecommunications services revenue.

4 Conclusion

Thus, telecommunications play a significant role in the social and economic activities of society by providing online or interactive (dialog) transmission of information. The development of telecommunications should be ahead of the overall pace of economic development and will be decisive in the near and distant future. The slow pace of development of telecommunications is causing a decrease in the competitiveness of the economies of the countries. Telecommunications play a significant role in accelerating the economic and social development on a planetary scale. The current stage of development of the world economic cannot be seen without the telecommunications sector, which is the main tool for managing the information flows of modern society and the basis of the economy in its modern sense.

<http://nrzi.gov.ua/index.php?r=site/index&pg=138&language=en>