

RESOLUTION  
Verkhovna Rada of Ukraine

On the recommendations of the parliamentary hearings on the subject of "The Reform of Information and Communication Technologies and the Development of Ukraine's Information Space"

(Verkhovna Rada, 2016, № 17, Article 191)

The Verkhovna Rada of Ukraine resolves:

1. To approve the recommendations of the parliamentary hearings on the subject of "The Reform of Information and Communication Technologies and the Development of Ukraine's Information Space" (attached).
2. To recommend to the Cabinet of Ministers of Ukraine to consider the recommendations, comments and suggestions made by the participants of these parliamentary hearings during the preparation of the Program of the Cabinet of Ministers of Ukraine, state programs for economic and social development of Ukraine, the laws on the State Budget of Ukraine for 2017 and subsequent years, other draft laws of Ukraine, the adoption of the regulations concerning information and communication technologies and information space of Ukraine.
3. By July 1<sup>st</sup> and December 1<sup>st</sup>, 2016 the Cabinet of Ministers of Ukraine should inform the Verkhovna Rada of Ukraine on the status of the implementation of the recommendations of parliamentary hearings, approved by this Resolution.
4. The Verkhovna Rada of Ukraine and the Committee on Information and Communications of the Verkhovna Rada of Ukraine should ensure that the book with the materials from the parliamentary hearings on the subject of "The Reform of Information and Communication Technologies and the Development of Ukraine's Information Space" is published.
5. The Committee on Information and Communication of the Verkhovna Rada of Ukraine should control the implementation of this Resolution.
6. This Resolution shall enter into force on the day of its adoption.

The Chairman of the Verkhovna Rada of Ukraine V.HROYSMAN  
Kyiv  
March 31, 2016  
Number 1073-VII

Approved by  
The Resolution of the Verkhovna Rada of Ukraine  
on March 31<sup>st</sup>, 2016 № 1073-VIII

## RECOMMENDATIONS

The Parliamentary Hearings on the subject of "The Reform of Information and Communication Technologies and the Development of Ukraine's Information Space"

Nowadays the international community is transitioning to an information society and the level of the development of the information space and the information technologies become the definitive factor in growing as an active and conscious citizen, as well as national competitiveness.

Information and communication technologies (ICT) is one of the most important factors in stimulating economic growth and development of civil society, employment, greater competition and, consequently, overcoming the "digital divide".

However, we can now say that it is the level of technological development that determines not only the country's economic potential and the quality of life of its citizens, but also the role and place of this country in the global society, the scale and prospects for its economic and political integration with the world.

The ICT sector occupies an important place in the economy of Ukraine. It is part of the information and telecommunications, which in the end of 2014 had more than 114.3 thousand business entities with different forms of ownership, including 13.3 thousand businesses and 101 thousand individuals - entrepreneurs. Employees of these entities totaled 306.3 thousand people, which is about 3.5% of the total number of employees in entities in Ukraine. Among them there are 192.7 thousand people employed by the enterprises. Gross domestic product (by the production method) generated by the entities in the sector of information and telecommunications in 2014 amounted to 3% (47.421 million UAH) of the GDP of Ukraine, and for 9 months of 2015 (preliminary data) - 3,1% (42.765 million UAH).

Companies that work particularly in "Information and Telecommunications" type of business came out on top in 2015 in terms of the dynamics of the annual growth of direct foreign investments. The volume of direct foreign investment at the end of 2015 amounted to 2.3087 million US dollars, reaching 5.3% of total foreign investments (on October 1<sup>st</sup> 2014 – 1857,4 million US dollars, accounting for 3 9% of total foreign investment). The volume of capital investments for 2014 amounted to 8,175,1 million UAH (during 9 months of 2015 – 17591,3 million UAH ).

In 2014 the business entities have sold information and telecommunication goods (works and services) for the total of 105689,6 million UAH, including enterprises and service providers who made 74271,8 million UAH (during 9 months of 2015 - 61988,4 million USD).

In 2015 exports of services in telecommunications, computer and information services amounted to 1.5162 million US dollars and imports to almost three times less - 537.0 million US dollars. Compared with 2014, the export of services decreased by 9.5% (98.5 million dollars) and the import rose by 4.9% (39.3 million dollars).

The main indicators of the ICT development are those that characterize the level of penetration of the fixed telephone and mobile communications, cable television, broadband Internet access and the percentage of the population that uses the Internet:

the level of penetration of mobile connection by at the end of 2014 (number of subscribers per 100 people) was 142.4% (as from October 1, 2015 - 142.9%);

the level of penetration of fixed telephone connection by the end of 2014 (number of subscribers per 100 people) - 24.4% (as from October 1, 2015 - 21.1%);

cable TV by the end of 2014 had reached 18.2% of Ukrainian households (as from October 1, 2015 - 17.1%);

by the end of 2014 22.2% of Ukrainian households have had access to fixed broadband Internet (as from October 1, 2015 - 29.8%);

according to the independent expert organizations, by the end of 2014 57% of the total population of Ukraine regularly used the Internet, and as of the end of III quarter of 2015 - already 58%.

More and more interactions between the government, business and citizens are happening with the use of ICT, which is why the stability and functioning of the ICT industry depends on public understanding in the country and the creation of the conditions for sustainable economic growth.

The ICT has a great value for country's development as shown in the development programs of many countries, particularly in the Strategy of Social and Economic development of the European Union for 2020 - "Europe 2020", according to which the implementation of its basic initiatives is based on the Plan of Development of the Digital Technologies in Europe.

The Participants of the parliamentary hearings noted that, despite the existence of the significant potential for the introduction of modern ICT to all spheres of the country, public demand for such implementation, as evidenced by numerous regional and local initiatives of civil society, the state of the development of information society and ICT in Ukraine compared with global trends, is inadequate and does not meet the strategic development goals of Ukraine because:

In international rankings Ukraine occupies: the network readiness in 2015 – 71 place among 143 countries in the world; the development of e-government in 2014 – 87 place among 193 countries - UN members; the development of the Internet in 2014 – 46 place among 86 countries; Internet penetration in 2014 – 95 place among 191 countries; the development of ICT – 79 place among 167 countries; the e-commerce in 2014 – 58 place among 130 countries; global cybersecurity index – is in the 17th group of countries (among 29 groups of countries);

there are significant problems with the formation and implementation of the effective public policies, particularly in the areas of:

the development of the information society – failure in the implementation of the Law of Ukraine "On basic principles of information society development in Ukraine for 2007-2015", no action plan for implementing the national strategy of further development of information society in Ukraine; the digital divide in access of the citizens of Ukraine to electronic communications and information resources, the slow growth of the level of computer literacy; the low level of implementation and use of ICT in education, science, culture, health, agriculture and in other sectors, no relevant sectoral and cross-sectoral programs; support of the deepening of democratic processes is poorly coordinated and unsystematic, including the conduct of elections, voting, national and local referendums, surveys and consultations, the introduction of public-government partnership, public control based on widespread use of ICT and the Internet;

the development of e-government - the plan of the implementation of the Concept of the development of e-government in Ukraine approved by the Cabinet of Ministers of Ukraine on September 26, 2011 № 1014 is not realized; no application of e-government in the executive branch and local governments, including programs that provide electronic administrative services;

creating favorable conditions for doing business in ICT - cumbersome procedures in order to enter the telecommunications market are required, including business entities, except for telecommunications providers, who depending on the type of activity are usually required to obtain a license for the activity in telecommunications and / or the license for using the radio frequency resource of Ukraine, and / or the permit the use of numbering resources; insufficiently regulated relations of economic competition in the markets of some telecommunications services, at the legislative level the principles of analyzing of telecommunications market, the list of regulatory obligations for operators, telecommunications providers with significant market advantage and powers of the national regulator for their use are not defined; no effective mechanisms of supervision (control) in telecommunications, aimed at preventing violations and reduction of potential pressure on entities, reducing the number of such inspections; failure in fully following the Law of Ukraine "On state support of development of software industry";

the establishment of the national electronic information resources, the development of the information field;

the implementation of modern security goals of the country with an involvement of the ICT industry, research institutions, educational institutions and public organizations that provide implementation of new ICT, including information security and cybersecurity; the recognition of the international certificates at the state level in the field of information security, cyber security and information technology; the introduction of the effective mechanisms of public control, abuse prevention and human rights violation during the information interception by security forces;

the improvement of the modern legal base for reforms in the ICT sector and the development of information space, many statements of which do not meet the present and in need improvement; harmonization of the national legislation with the standards of EU legislation in accordance with the Association Agreement between Ukraine, on one hand, and the European Union, the European Atomic Energy Community and their Member States, on the other hand, particularly in the Information Society sector, providing electronic services and development of telecommunications, intellectual property, etc;

the government management – there is no single central executive power responsible for the formation and / or implementation of public policy for the development of the information society, telecommunications, programming, information security and cyber security, implementation of e-government, electronic documentation, electronic signature, which leads to: uncertainty and lack of a unified state policy in these areas; insufficient coordination of state and local governments in the field of ICT and communications; lack of interoperability of various information systems, created at different times according to different principles on different technological platforms;

the legislation - does not provide the effective mechanisms of protection for telecommunications services consumers in case of the termination of the operators, telecommunications providers.

Taking to account the potential positive impact of values of the information society on the European integration processes in the further development of Ukraine, the need for the formation and implementation of the effective public policy in the field of ICT, adequate challenges and the needs of society and the state, the need to develop a national information infrastructure, e-governance and e-democracy particularly in terms of parliamentary and local government, information security, the importance of implementing international standards and best practices, in particular, on the development, implementation and use of information technology, information products and services, in case of the adequate scientific, technical and legal support of the reforms ICT, and that in today's world, overcoming the digital divide is an essential condition for the social and economic equality of citizens, activation of their participation in government, education, employment, health,

culture, leisure, the participants of the parliamentary hearings on «The Reforms of Information and Communication Technologies and the Development of Ukraine's Information Space» recommend:

## 1. On the public policy in the field of information and communication technologies

### 1) The Verkhovna Rada of Ukraine:

should ensure the priority consideration and approval of legislative initiatives aimed at creating a complete legal system on the issues of the development of information and communication technologies, including:

the legislation on electronic communications and amendments to some legislative acts of Ukraine determined by the President of Ukraine as urgent for early consideration by the Verkhovna Rada of Ukraine; Draft Law of Ukraine on electronic trust services (reg. number 2544) for the implementation of the Association Agreement between Ukraine, on one hand, and the European Union, the European Atomic Energy Community and their Member, on the other hand;

the bills introduced to the Verkhovna Rada of Ukraine on the deregulation of economic activities, approved by the Cabinet of Ministers of Ukraine on March 18, 2015 № 357;

ensure that there is no cross-subsidizing of one industry of the information sphere at the cost of another;

to initiate more favorable tax conditions for economic ICT entities and promote the development of small businesses by introducing economic incentives for ICT businesses with subsequent monitoring of the economic effect of these incentives;

to initiate the creation of a single Parliament information space, in particular, in order to ensure effective interparliamentary cooperation;

### 2) The Cabinet of Ministers of Ukraine:

to create a central executive body that will ensure the development and / or implementation of state policy in the field of ICT and communications, information society development, telecommunications, programming, information security and cyber security, implementation of e-government, electronic documentation, electronic signature. To give to this executive body authority powers that other executive bodies (that concern ICT and communication) have, clearly divide powers between the executive power in the areas according to EU legislation;

to identify the models of ICT-based services of public authorities, including the role, powers and organizational structure in accordance with the best international practices;

to develop and submit to the Verkhovna Rada of Ukraine:

the laws on the State program of the development of information and communication technologies in Ukraine; on electronic identification; on electronic administrative services, provision of health services with the use of ICT, distance learning, audio and video media services, free sharing of public information resources and data, using radio frequency resources, that must be developed on the basis of the implementation of the EU legislation and international law, with the involvement of the leading scientists and specialists of the national Academy of Sciences of Ukraine, national specialized academies, research institutions, universities and community organizations, business

representatives in ICT; on public-government partnership in the field of e-governance and other laws of the development of the information society;

the legislation on termination of the seizure of computer equipment during the in the ICT sector, including the amendments to the Criminal Code of Ukraine on preventing termination of information and telecommunication systems, multi platforms during the investigation and seizure of the evidence in the form of information from their carriers, taking to account that the temporary withdrawal of the electronic media (computers, servers, memory cards, telephones with memory blocks, etc.) can be used only in cases where the circumstances regarding the establishment of the physical properties of the media (presence of specific traces, the chemical composition of the materials, etc.);

to develop and approve the Concept of electronic identification of natural and legal persons in governmental information and telecommunication systems;

to develop with the help of scientific institutions and public organizations, leading experts and entrepreneurs the Action Plan of implementation of the National Strategy for the further development of information society in Ukraine approved by the Cabinet of Ministers of Ukraine on May 15, 2013 № 386, to ensure the inclusion of the main issues of the information society in Ukraine into the Program of the Cabinet of Ministers of Ukraine, the programs of economic and social development of Ukraine in accordance with the Law of Ukraine "On state forecasting and elaboration of the programs of economic and social development of Ukraine", taking into account the implementation of the appropriate international instruments, including the initiative "Digital agenda for Europe", the Agenda in the global development of telecommunications / ICT "Connect-2020" adopted by International Telecommunication Union (2014, c. Busan), resolutions of the UN's General Assembly "The right to have privacy in the digital age" (December 18, 2013 № A/RES/68/167), "The right to have privacy in digital age" (December 18, 2014 № A/RES/69/166), "Using information and communication technologies for development" (December 19, 2014 № A/RES/69/204), the report of the Second Committee of the UN at the 70th UN General Assembly session "Using information and communication technologies for development" (December 15, 2015 number A/70/469);

to attract the national mail operator in order to implement the state programs on the development of information society in Ukraine;

to oblige all central bodies of executive power in the industry to develop action plans for the implementation of the National Strategy for Information Society Development in Ukraine and its broad public discussion with the representatives of scientific institutions and public organizations, leading experts and entrepreneurs in the ICT sector;

to take measures in order to accelerate the introduction of the international and European standards in governing ICT and information relations;

to provide recognition at the national level of the international certificates in the field of ICT, information security management and cybersecurity;

to provide legislative regulation of the recognition of conformity assessment results in the field of ICT, information security management and cyber security, carried out by the authorized domestic and foreign certification bodies and conformity assessment;

to ensure the separation of the information law and intellectual property rights as an academic specialty in accordance with the recommendations of the National Academy of Sciences of Ukraine and the Expert Council in the field of Law of the Ministry of the Education and Science of Ukraine;

to ensure the implementation of effective incentives for the development of Ukrainian ICT business and increase its competitiveness in the global market by providing system of monitoring of the economic efficiency;

to carry a promotional campaign of the Ukrainian ICT industry among foreign partners and investors by developing together with representatives of the ICT industry promotional materials;

to improve the image of Ukraine as the ICT country attractive for investments;

to create clear and stable rules for the development of human capital, attracting new players to the ICT market, investors and customers;

to save for the companies of the export sector ICT sector the possibility to hire workers on contract and on a single tax on the basis of employment;

to improve the mechanism of public procurement of ICT products within the information technology projects, providing: checking the validity of proposals for the procurement of ICT and exclusion unjustified procurement; consolidation of needs for a typical procurement of ICT; architectural standards and standard configurations of hardware and software used in government agencies and state enterprises; transparent centralized tenders and the best prices for purchasing large volumes; the mandatory qualification procedure; the mandatory application of mature methodology of choice making, and project management for projects, the ability to determine the validity of the contract required for entering the information and telecommunications systems and software in regular exploitation, prohibiting the acceptance of tender results without entering the information and telecommunications systems and software in regular exploitation; the mandatory deferral of payment of most of the funds until the introduction of the system into operation; the public discussion and independent quality control; information security in all phases of major projects - from architecture planning, development, implementation to disposal;

to take measures to determine the order of operative response to complaints about the abuse of power during the inspection and investigation in the ICT industry;

to ensure holding a regular auditing on the use of ICT in government according to international standards and the proper reporting of Verkhovna Rada of Ukraine and the public;

to initiate the measures to enhance public participation in the formation and implementation of the state policy on information society development in Ukraine, including the possibility of introducing a deliberative body, ensuring mandatory involvement of the leading experts in the ICT industry to develop drafts of the legal acts, holding public debates and examinations.

## 2. On the implementation of e-government

### 1) The Cabinet of Ministers of Ukraine:

should develop and submit to the Verkhovna Rada of Ukraine amendments to the Law of Ukraine "On the National Informatization Program" to restore the coordinating role of the general state customer of the National Informatization Program, the transparency of formation and implementation of information technology projects;

to develop:

the Concept of e-government in Ukraine for the time period until 2020;

the program and the action plan to improve the ICT competence of civil servants and officials of the local government;

to develop within three months:

taking into account the best international practices and domestic experience in program and action plan for the implementation of e-government, providing unconditional transition for two years on electronic documents of all central bodies of executive power, and to ensure interoperability of public authorities exclusively on the basis of sharing electronic information resources and registers;

program and action plan implementing cryptographic European standards;

two-year action plan to ensure the submission of any statements, declarations, analytical and statistical information under only one of any public authorities only in the form of electronic documents with a reasonable level of identification of the subject presentation and using internet technologies bring reporting requirements ICT in line with the definitions of the International Telecommunication Union;

provide:

the national program of information and create a national system of geographically distributed secure e-mail public authorities;

public expertise of state programs of information, consolidation needs the same type of consolidated procurement and transparent tenders for the purchase of the typical hardware and software;

national coordination of building systems provide electronic administrative services to central authorities and local governments.

### 3. On the development of information infrastructure

#### 1) The Verkhovna Rada of Ukraine:

to ensure priority consideration and adoption of the draft Law of Ukraine on the access to the infrastructure construction facilities, transport, power for the development of the telecommunication networks (reg. number 4159), which will regulate relations concerning the use of infrastructure construction facilities, transport, power for the development of telecommunication networks, and to establish the powers of the government authorities to identify methods of setting fees for the access to the infrastructure;

to reject the draft Law of Ukraine on State Support of Cinematography in Ukraine (reg. number 3081-D), that contains the legal structures and mechanisms of protection of the copyright infringements and intellectual property violations that do not meet the international treaties ratified by the Verkhovna Rada of Ukraine;

#### 2) The Cabinet of Ministers of Ukraine:

to develop and submit to the Verkhovna Rada of Ukraine the legislation on the deregulation in the sphere of foreign economic activities of the ICT industry, including the abolition of compulsory paper form of foreign trade agreements and the need for submitting the acts of performed works by services exporters, to simplify to process of obtaining the corporate rights of non-resident companies by the citizens of Ukraine;

to develop and submit to the Verkhovna Rada of Ukraine changes to:

the Criminal Code of Ukraine regarding the strengthening of the responsibility for willful damage to the cable, microwave and air lines, wire broadcasting or structures or equipment within their structure that caused the suspension of communication;

the Customs Tariff of Ukraine on the introduction of the additional unit of measurement and calculation (in pieces) for the ICT products of high cost, including processors, motherboards, graphics cards etc.

the Law of Ukraine "On Television and Radio" on taking to account the recent changes in the television industry and the implementation of new technologies, identification of the responsible for the introduction of digital television and the transparent terms in the field of digital broadcasting;

the legislative acts of Ukraine aimed at:

creating equal conditions for the ICT entities of bringing the goods to the market and preventing gray imports of goods like that, including the amendments to the Tax Code of Ukraine for the admission to selling those imported goods such only in case of existence of transaction registers with fiscal functions;

reducing non-tariff barriers for the international ICT trade, including the simplification and acceleration of the procedures of their certification and the recognition European certificates;

the renewal of IMEI-codes of devices containing GSM-module and making it an obligation for the telecommunications operators to suspend the access to the networks of illegally imported devices;

to ensure the development of digital television in Ukraine, including:

to create a regulatory framework for the introduction of digital terrestrial television broadcasting and to study the digital signal coverage of the territory and population of Ukraine;

to create a metrological base and the appropriate regulatory support for technical operation and quality control of digital terrestrial television broadcasting of the second generation DVB-T2;

to develop a mechanism to ensure that socially vulnerable categories of citizens have means of receiving digital signals according to the plan of the shutdown of analog TV;

to take measures for further development of digital terrestrial television broadcasting in terms of the transition to the advanced technology of highly efficient video compression and introduction of new channels of high and ultrahigh definition;

according to the Action Plan for deregulation of economic activity, approved by the Cabinet of Ministers of Ukraine on March 18, 2015 № 357, to develop amendments to the normative acts regarding:

the simplification of the procedures of the telecommunication equipment placement on the construction sites, existing buildings, buildings, facilities and on the premises;

the access to a sanitation cable telecommunications;

the state sanitary norms and rules of protecting the population from the exposure to electromagnetic radiation;

the establishment by the State Property Fund of Ukraine of the requirements for the use of rental rate of 10% in case of using the real estate objects in order to accommodate technological equipment, antennas of the telecommunications operators, that provide mobile services, operators and telecommunication providers who provide access to the Internet;

to ensure the implementation of the measures provided by the Plan;

to provide unconditional and timely implementation of the Action Plan on the introduction of movable (mobile) communication of fourth generation, approved by the Cabinet of Ministers of Ukraine on November 11, 2015 № 1232;

to establish and ensure the functioning of public notification system in case of threats and emergencies in Ukraine;

to develop a set of measures for implementation of the Digital Agenda for Ukraine based on the Digital agenda for Europe (A Europe 2020 Initiative) (Digital Agenda for Europe): the goals of the legal sphere, society and technology development for reaching the European level of broadband Internet services;

to develop a national target program to ensure universal, accessible, open and safe access to the Internet in institutions of the public sector - in education, science, health, culture, etc.

to ensure the efficient use of radio frequency resources of Ukraine, in particular regarding:

the efficient use of radio frequencies by the specific and general users;

the implementation of the gradual transition to a single document that brings together the National allocation table of radio frequencies Ukraine approved by the Cabinet of Ministers of Ukraine on 15 December 2005 № 1208, and the Plan of using radio frequency resources of Ukraine approved by the Cabinet of Ministers of Ukraine on June 9, 2006 № 815 on the analogy of ERC REPORT 25 (European table of frequency distributions and applications);

3) The Administration of the State Special Communications and Information Protection Service of Ukraine:

to work on the issue regarding the reduction of the number of indicators of quality data services and Internet access, to prepare appropriate amendments to legislative acts based on the relevant European standards (Guide ETSI EG 202 057-4 V1.2.1) by canceling the order of The Administration of the State Special Communications and Information Protection Service of Ukraine as from December 28, 2012 № 803, which approved quality data services and Internet access, the the order of The Administration of the State Special Communications and Information Protection Service of Ukraine as from September 12, 2012 № 517 "On approving and giving effect to the Organization Standard 61-34620942-011:2012 "The telecommunication networks of public data transmission. Telecommunication services. The main indicators of quality. Testing methods" as

those that do not meet European standards and prevent the implementation of the Association Agreement between Ukraine, on one hand, and the European Union, the European Atomic Energy Community and their Members, on the other hand;

to apply after the adoption of the appropriate regulations, to the Ministry of Infrastructure of Ukraine regarding the abolition of the order of the Ministry of Transport and Communications of Ukraine as from July 22, 2010 № 513 "On approving and implementing of the Organization Standard 64.2 - 00017584 - 008:2010 "The telecommunication networks of public data transmission. The system of the main indicators of quality of data transmission and Internet access. Terms";

to promote the conclusion of the self-regulation act - the public agreement (memorandum) on the standards of the Internet access in Ukraine;

#### 4) The National Council of Ukraine on Television and Radio Broadcasting:

to ensure maximum coverage with national TV and radio in Ukraine;

to ensure the transitioning from analogue to digital terrestrial television broadcasting in order to follow the international obligations of Ukraine;

to improve the Regulation on the procedure of issuing license of a software services provider, approved by the National Council of Ukraine on Television and Radio Broadcasting a from December 28, 2011 № 2979;

to promote the adoption of self-regulatory mechanisms in the field of paid television in Ukraine.

#### 4. On the establishment of public electronic information resources, the development of services for the public with the use of ICT

##### 1) The Verkhovna Rada of Ukraine:

to ensure the review and adoption of the draft Law of Ukraine on amendments to some laws of Ukraine regarding the documents that certify the citizenship of Ukraine, identify a person or their special status, aimed at the liberalizing of the EU visa regime for Ukraine (reg. number 3224);

to authorize the Committee on health care of the Verkhovna Rada of Ukraine together with the Committee on Information and Communication of the Verkhovna Rada of Ukraine to develop a bill on the use of ICT in the health sector;

##### 2) The Cabinet of Ministers of Ukraine:

to develop and submit to the Verkhovna Rada of Ukraine a draft law on the unified system of electronic interaction;

to provide access for all the population to the information resources, including measures to implement:

the stable functioning of the Single State Web Portal of open data;

to create the "road map" of open data development, the regulation of the disclosure of governmental open data;

to support socially vulnerable categories of citizens, including people with disabilities, and give them the possibility of preferential purchase or use of the Internet access devices;

to develop and adopt common rules for integrating electronic services in the Unified State Portal of the administrative services and the integration of local portals in the Unified State Portal of the administrative services;

to ensure the establishment and maintenance of public electronic resources and registers according to one set of organizational, methodological and technical principles, which should provide the technological and semantic interoperability and the interaction of public electronic resources with each other and with other municipal and private information computer systems and networks;

to create favorable conditions for the development of "electronic" sectors of the economy (trade, financial and banking services, etc.), to improve the investment climate for the international transfer and to adapt the advanced information technologies in Ukraine;

to provide equal and unlimited user access to telecommunications services, especially public services with appropriate level of quality according to the regulated state tariffs;

### 3) The Ministry of Health of Ukraine:

to develop and submit to the Cabinet of Ministers of Ukraine the draft on standard requirements for the information and telecommunications infrastructure of medical institutions and requirements for the use of cloud services in health care;

to submit to the Cabinet of Ministers of Ukraine the draft on amendments to the order of the Cabinet of Ministers of Ukraine as from September 17, 1996 № 1138 "On the approval of the list of paid services provided in public health institutions and medical institutions of higher education" to provide medical care with the use of telemedicine;

together with the Ministry of Regional Development, Construction, Housing and Communal Services of Ukraine to develop and submit to the Cabinet of Ministers of Ukraine in the established order the draft on the amendments to the State building norms (DBN V.2.2-10-2001. Healthcare) regarding the mandatory availability of information and telecommunications infrastructure in health care;

4) the local authorities should develop an action plan for the introduction of the technology of providing the electronic administrative services with the use of electronic documents.

### 5. On the education and formation of ICT skills in the information society

1) The Verkhovna Rada of Ukraine in the preparation and revision of laws of Ukraine on education, pre-school education, secondary education, school education, vocational training, higher education, to normalize the educational relations connected with the rights to information, including the right to access electronic educational resources and the right to access to electronic communications, the promotion of digital educational space, creation of the open databases and online resources on the issues of schools and education authorities, that will provide the expansion of the transparency in decision-making and to ensure public control of the use of ICT in education;

### 2) The Cabinet of Ministers of Ukraine:

to amend the education development strategy and ensure the appropriate state programs with the introduction of ICT in education in order to transition to an innovative path of development to ensure the transformation of the national education policy by accelerating the introduction of ICT and the development of national information resources in education;

to contemplate the issue of stimulating public-government partnerships in accelerating the introduction of ICT in the educational process and the creation of educational electronic information resources;

to ensure the development of the legislation for the introduction of dual education for ICT specialists;

to ensure the development of ICT entrepreneurship at the higher education institutions by encouraging the commercialization of the scientific research of scholars and students through the creation of the commercial institutions by the higher education institutions, to develop the appropriate legislation;

to take measures for holding information campaigns at national and regional level on the need to develop skills in public use of computers and Internet technologies, to encourage their use in professional and everyday life (electronic administrative services, distance education, health, leisure, etc.);

to provide the translation and introduction of international standards and the best practices of cyber security in ICT in Ukraine;

to provide the increase of the state order for specialists in ICT professions, distribution of which will be held according to the actual needs of the labor market in the region, involving the evaluation of the quality of training of ICT professionals in the ICT sector;

### 3) The Ministry of Education and Science of Ukraine:

to prepare amendments to the National Strategy for Development of Education in Ukraine for the time period until 2021, approved by the Decree of the President of Ukraine as from June 25, 2013 number 344/2013, aimed at the transition to an innovative path of development by accelerating the introduction of ICT in education and research, the development and educational research electronic information resources, to develop an action plans to achieve these goals or indicators;

to consider the formation of the Expert Committee of the Ministry of Education and Science of Ukraine on issues of electronic education comprising representatives of leading educational and science institutions, entities of managing ICT industry, government organizations and international experts;

to provide the localization and implementation of international (ISO) and European standards of "Information technology-Learning, education and training";

to develop standards for ICT competencies of the participants of the educational process;

to introduce the compulsory studying of the principles of programming in secondary schools under the subject "Computer Science" and the subject "Programming" in high school at schools that specialize in physics and mathematics, information and communication fields, setting a 20 percent bonus to the salary teachers who teach these subjects;

to develop and implement a program to improve public awareness on the issues of the information security, cyber security and information security regarding the protection of confidential information, including personal data, fighting threats of its unauthorized use;

provide the update of the State sanitary rules and norms of "Placing the computer offices and the computer equipment in schools and the students' work mode on personal computers" (State Standard 5.5.6.009-98), approved by the Chief Medical Officer of Ukraine as from December 30, 1998 № 9.

## 6. On the information security Ukraine

1) The Verkhovna Rada of Ukraine should ensure the adoption of the comprehensive legislation on the basic principles of information security of Ukraine;

2) The Cabinet of Ministers of Ukraine:

to develop and submit to the Verkhovna Rada of Ukraine the draft laws of Ukraine:

on the settlement of the activity in the field of cyber security - based on the study of best practices of advanced countries with the help of leading scientists and experts from research institutions, universities, businesses and government organizations;

on a new version of the Law of Ukraine "On Personal Data Protection", envisaging the improvement of the protection of personal data and monitoring its effectiveness, in terms of the emergence of new threats to the right to privacy with the possibility of profiling data about a person, and the transition to international standards of information security and cyber security for government agencies, institutions and enterprises of any form of property;

on the lawful interception of the telecommunications, taking to account the recommendations of the Council of Europe EU COM 96/C 329/01 "On the lawful interception of telecommunications" and ENFOPOL 55 "On the operational needs of law enforcement authorities regarding telecommunication networks of public use and telecommunication services" as from January 17, 1995, by ensuring the respect for human rights and public control in order to prevent possible abuses;

to resolve at the legislative level the issue of activity registration, administration and using the names and addresses in the Ukrainian segment for the Internet for government bodies;

to resolve the issue of inspection of the government and military authorities solely through funds provided by the appropriate budgetary institutions that monitor the information security, cyber security and telecommunications;

to ensure the implementation of the Law of Ukraine "On Telecommunications" regarding the establishment of the National Centre of operational and technical management of telecommunication networks of Ukraine and to provide the proper functioning of its order to ensure the sustainable and reliable governance in times of crisis;

ensure the transfer of the telecommunication network of special purpose of "Ukrtelecom" to the Administration of the State Service for Special Communications and Information Protection of Ukraine in order for special customers to connect to the telecommunication network of special purpose and make a transition to use the of public telecommunication resources, overcoming dependence on the private operator telecommunications;

to create services in the profile ministries that will be responsible for issues cybersecurity of relevant critical infrastructure sectors;

to develop the specific cybersecurity industry standards to the relevant industries;

to ensure the creation of the plan of the implementation of NATO standards, in particular, in the fields of communications and telecommunications;

to ensure the existence of the national exercise practices for the cases of emergencies in the area of cyber security;

to develop and implement mechanisms for public-government partnership in order to manage the cyber security of critical information infrastructure in cyberthreats prevention and crisis management, emergency, in special period;

to take measures:

to provide personal control of the heads of ministries and other central executive authorities, regional and district administrations on the issue of planning measures to protect information for 2016 and the allocation of funds in 2016 for the financing of information security, including budget funds of lower level ;

the certification of personnel in the departments in order to combat cybercrime at law enforcement authorities for the purpose of establishing of their competence in technical matters of functioning of the electronic information systems and knowledge of the laws of Ukraine;

protecting internationally the interests of the state in regard with the illegal use of radio frequency resources in the Autonomous Republic of Crimea in order to prevent the recognition of radio frequency assignments in the temporarily occupied territories;

to improve storage systems, data transmission and databases using modern ICT (including technologies of online access), bringing its operation in line with European standards;

3) The Security Service of Ukraine jwith the Administration of State Special Communications Service of Ukraine shoul consider the introduction of the protected Wi-Fi access at the movable management points in order to enable the extensive use of telecommunication services in the field management points of special users, reduce the cost of deploying subscriber networks in these areas, provide the convenience of use of final interfaces, reduce deployment (clotting) time and simplify the functioning of the connection nodes on the moving base;

4) The Administration of the State Special Communications Service of Ukraine:

to take measures immediately within their power to improve activities in the area of anti-terrorist operation (hereinafter - ATO):

to improve the efficiency and consistency of the activity at the special period for the proper protection of state information resources and information, the protection of which is determined by law;

to improve the state tariff policy and public procurement in the telecommunications sector, providing the competitive supply of modern telecommunications to ensure activities in a particular period;

to improve the efficiency of special communication and information protection at technical military units and law enforcement agencies, departments that are taking part in the ATO;

increasing the capacity of government communications between the officials of state institutions, local authorities, military institutions, heads of enterprises, institutions and organizations (particularly in the area of ATO);

the organization of the development, permission for use or production of special means of communication intended for switching or routing packets for the protocol stack TCP/IP, analog subscriber devices and IP telephony, videoconferencing and other modern means of communication, particularly given under technical NATO support;

reviewing and improving the regulatory framework for the use of modern hardware for cryptographic protection of the information in hardware of the special communications of the old park;

approving regulations to provide supporting documents and the creation of the state expertise of the special complex information security systems in the area of ATO;

the development of practical recommendations and actions for countering technical intelligence taking into account features related to the ATO;

the adequate and effective presence of government departments of field communication, enhancing of their technical capabilities;

the implementation of measures in order to normalize the possibilities of deployment and maintenance of state information infrastructure institutions in the data centres, integration of the information of public resources into a single system of information exchange with the use of modern technology;

to take measures to improve the regulatory framework taking into account international standards of information security and protection of personal data;

the transition to international standards of information security, information security management and cybersecurity;

improving of the regulatory framework for implementing of the multi-level information security evaluation system (self-evaluation, internal audit, independent audit, state control) in accordance with international standards of information security;

further development and modernization of the operational and technical management of the National System of Confidential Communication;

the intensification of the development and introduction of modern high-speed cryptographic means of information protection;

the organization of training (retraining) of the officials of state institutions responsible for protecting information, at courses on technical and cryptographic information protection, information security management and cybersecurity, conducting their certification;

training of the employees of the departments of government on cyber security.

7. On scientific, technical and legal support of the reform of the information and communication technologies and information space of Ukraine

1) The Cabinet of Ministers of Ukraine, The National Academy of Science of Ukraine and the national industry academies of Ukraine:

to determine the priorities of the scientific and technological research and development regarding humanities, law, technology and innovation issues of ICT development and information society development;

to establish the cooperation with the international organizations on the issues of ICT management, information security and cybersecurity;

to introduce mechanisms to encourage public authorities, businesses and other organizations, institutions and enterprises to develop cooperation with scientific institutions and universities in order to develop and implement information technologies, resources, products, services and their legal support.