



**ITU Regional Seminar for Europe and CIS «Digital  
Future Powered by 4G/5G»  
Kyiv, Ukraine, 14-16 May 2018**



## **CONCLUSIONS**

International Telecommunication Union (ITU) and the State University of Telecommunications (SUT) at the Ministry of Education and Science of Ukraine carried out the ITU Regional Workshop for Europe and CIS Region “Digital Future Powered by 4G/5G” in Kyiv, Ukraine, on 14-16 May 2018.

The workshop covered the following challenging issues:

- ICT infrastructure as a basis for digital transformation of economy;
- legislative and regulatory environment required to enable implementation and development of 4G/5G networks and innovative services;
- application technologies of the near future: Internet of things, machine learning, intelligent transport networks, robotics, blockchain;
- cybersecurity challenges, and
- modern management practices in public and private sectors.

The workshop was attended by more than 100 representatives of international organizations, ministries and departments, law enforcement authorities, telecom operators, higher educational institutions, R&D establishments, service providers and other organizations from the ITU member states, including the Republic of Armenia, the Republic of Azerbaijan, the Republic of Belarus, the Federative Republic of Brazil, the Czech Republic, the Arab Republic of Egypt, the French Republic, the Kyrgyz Republic, the Republic of Moldova, the Republic of Poland, and Ukraine.

The workshop was conducted in English and Russian with simultaneous interpretation.

In the course of the workshop, experts of international organizations, government agencies, educational institutions, non-government and private organizations delivered 37 reports. The workshop also included an exhibition of modern telecommunications equipment.

The workshop participants noted that:

- 1) the workshop was topical;
- 2) the reports made by representatives of ministries and departments, law enforcement agencies, telecom operators and service providers, higher educational

institutions and private companies were of practical significance, and the materials of the workshop could be used by its participants in practice.

The workshop participants discussed and considered in detail:

- 1) the organizational solutions Ukraine could use to implement the digital economy model by creating digital future infrastructure powered by 4G/5G on the basis of global practices;
- 2) development of digital infrastructure as the basis for digital economy;
- 3) improvement and adaptation of Ukraine's law to key digital economy standards of the EU;
- 4) implementation of the mechanisms of support the government grants to develop digital transformations;
- 5) improvement of the population's digital literacy in compliance with requirements of the new-brand economy and information security;
- 6) intellectual property protection;
- 7) the real sector digitalization, in particular via development of the Industry 4.0 infrastructure, digital financial services, digital workplaces, "smart factories";
- 8) digitalization of the basic living environment, including digital identification, social media and open data, use of blockchain via digital transformations of high school and development of STEM education, implementation of eHealth and other e-applications, the concept of smart cities;
- 9) development of super broadband mobile communication;
- 10) improvement of mass inter-machine communication and making it more reliable;
- 11) use of advanced signal-code constructions to improve spectral efficiency of signal transmission;
- 12) release of radio frequency spectrum by converting it for 5G networks;
- 13) use of new sections of centimeter and millimeter frequency bands, and
- 14) adaptation of tertiary education to the dynamic changes enabled by digital technology.

The workshop participants express gratitude to the State Service of Special Communication and Information Protection of Ukraine, the State University of Telecommunications, representatives of the ITU, moderators and speakers for exceptional organization and conducting of the workshop.

Kyiv, Ukraine.

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