

Digital landscape of education on the example of Ukraine

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Infocommunication Infrastructure Development Rating (Networked Readiness Index, 2016/2017 year)

Rating	Country	Assessment
1	Singapore	6,0
2	Finland	6,0
3	Sweden	5,8
4	Norway	5,8
5	USA	5,8
8	United Kingdom	5,7
10	Japan	5,6
15	Germany	5,6
64	Ukraine	4,2

Digital Transformation

Education System
Management

Creating a modern and secure digital educational environment providing high quality and accessibility of general education

university
management

Quality
management
education

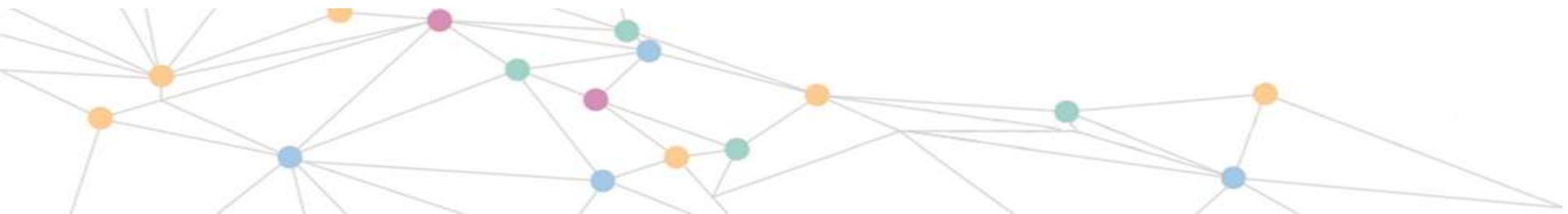
Educational process



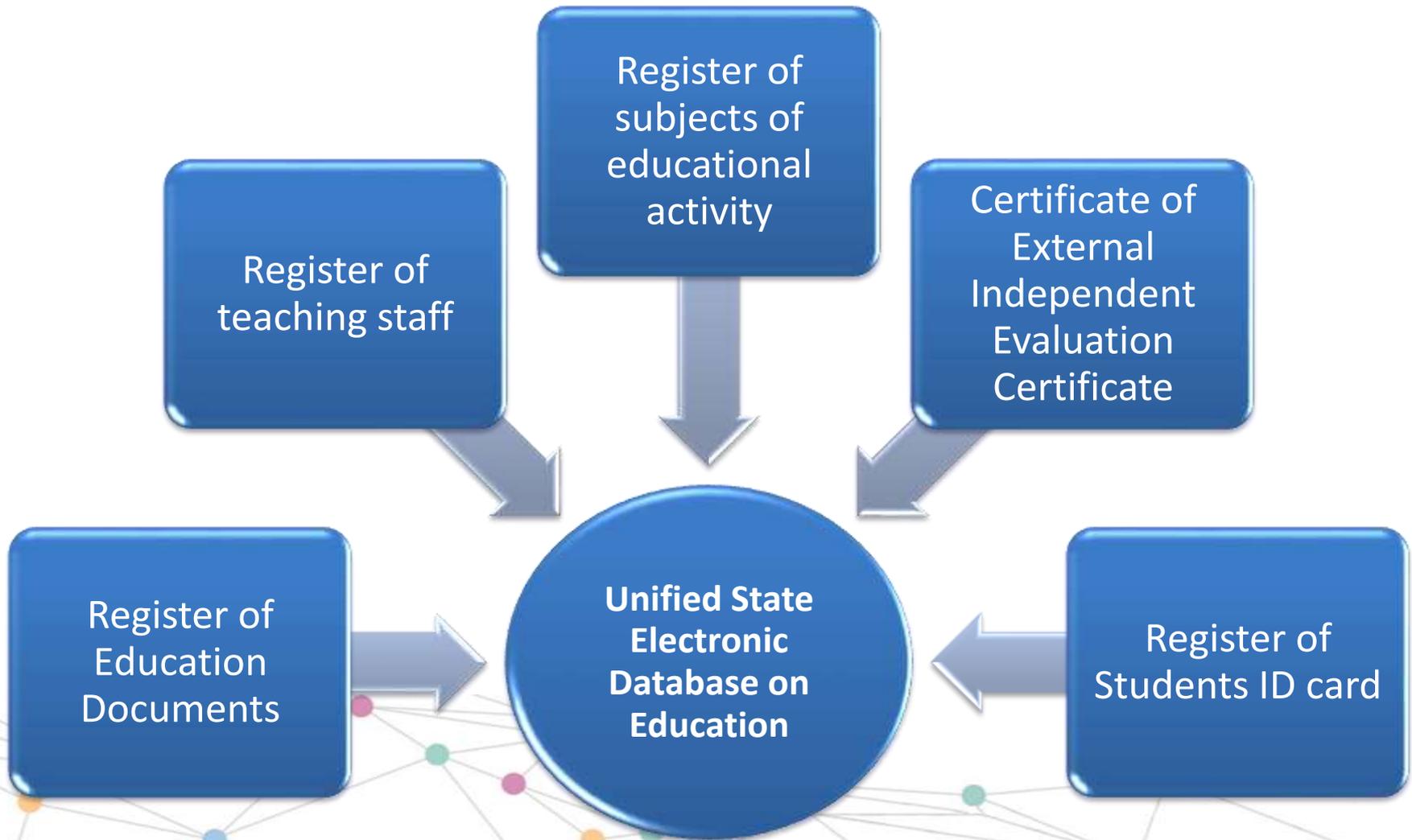
Digital technologies in the management of the education system

Digital Education Management

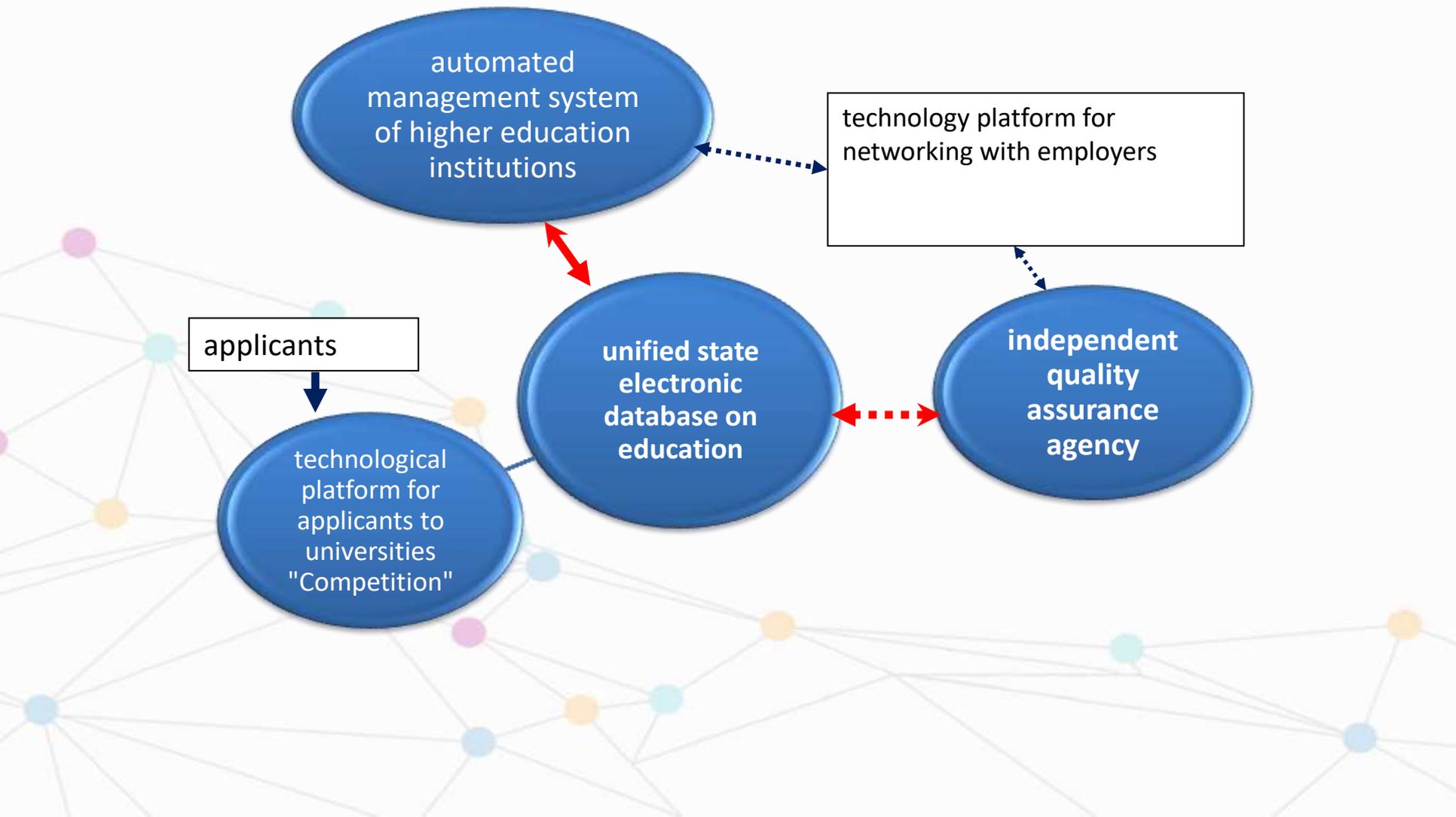
is a structured, logically completed organizational and technological complex of server, software and automated systems, computer program communication interfaces with databases interconnected in a single process of managing educational structures of all subordination levels and local education authorities.



Digital technologies in the management of the education system



Digital technologies in the management of the education system



Digital technologies in the management of the education system

On January 1, 2019, to the Unified State Electronic Database on Education are connected :

- **780** institutions of higher education and **706** separate structural units of legal entities providing higher education
- **1026** institutions of vocational (vocational-technical) education and 53 separate structural units of legal entities providing vocational (primary vocational education)
- **270** other institutions providing vocational (vocational-technical) education or provide vocational training;
- **343** departments of education.

Benefits

- Obtaining reliable statistical data on the participants of the educational process in real time.
- Formation of analytical and forecast reports on given parameters.
- Transparency.
- Quick verification of education documents from anywhere in the world.
- System flexibility, which allows you to connect new modules with more detailed information.

Automated Management Systems for Higher Education

Core modules :

“Admissions Committee”, “Management of educational and methodical work”, “Personnel”, “Management of research and development work”, “Report Designer”, “Management of administrative and economic activities”, “Smart campus”, “Security system”

Educational Content Platform, «Оценочный инструментарий» (Evaluation Toolkit),

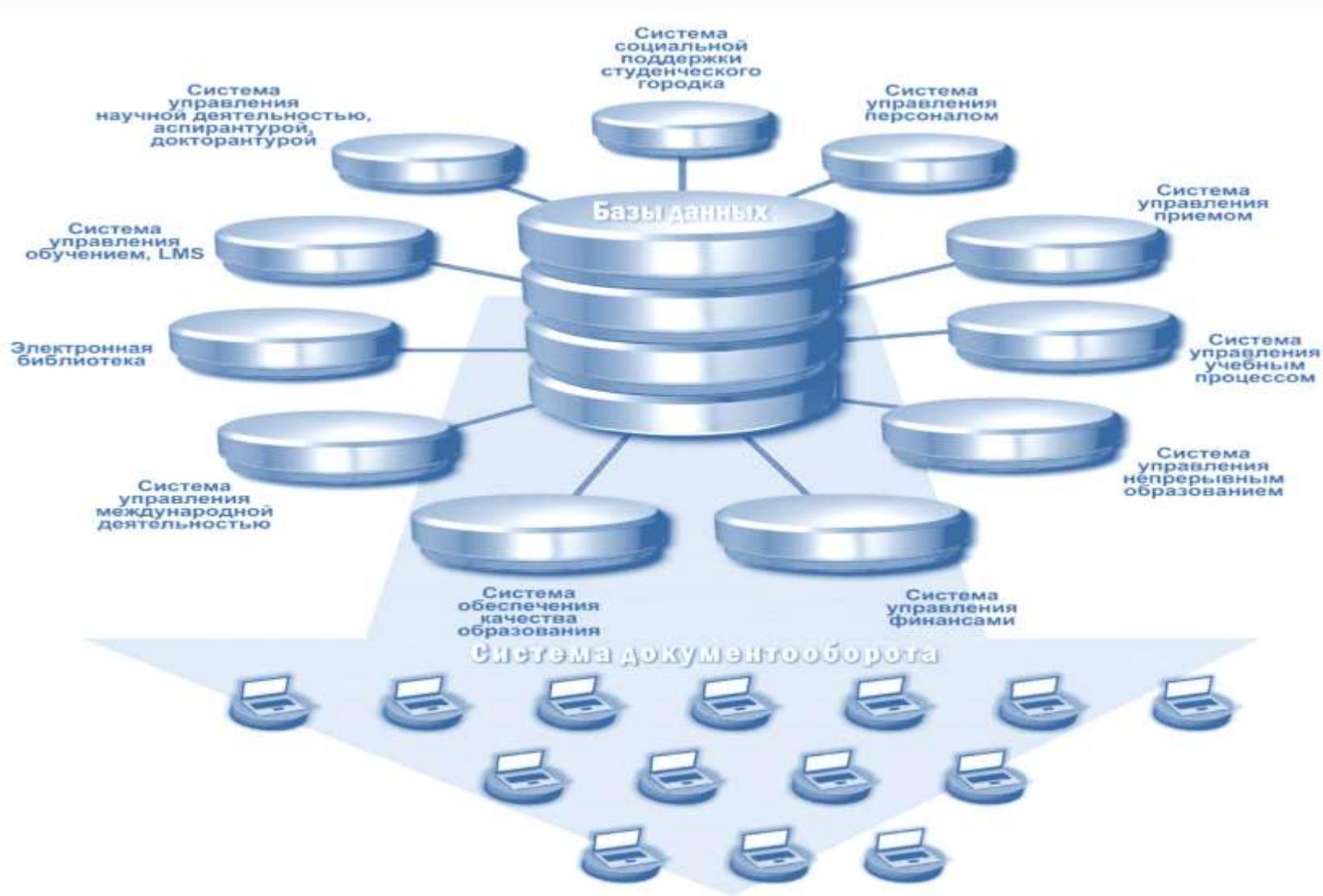
Rating of scientific and pedagogical staff, students, faculties

Education Quality Assurance Module

Student Support Center

Web-timetable, Backup manager





School management trends

technological solutions should promote and adapt to the changing digital landscape of higher education

Transition to personalized education

Creating a centric media date

ensuring the formation of a digital competency profile of a student

Technology platforms for interacting with employers at the regional, national, international level

Technological platforms for the formation of communities (student, scientific)

New Lifelong Learning Approaches

Digital landscape in the educational process

Technology Transformation of Educational Process

- Online education, interactive tutorials, gamification of education.
- Learning in virtual and augmented reality, the use of artificial intelligence in the educational process, 3 D printing.
- Involvement in the process of global discussions with scientists from other countries in real time.

Change curriculum content based on high-quality digital programs
the emergence of disciplines at the junction of different specialties,
Formation of digital competence, teaching students of non-IT specialties to work with large databases

Digital landscape in the educational process

Expanding the scope and boundaries of research

(exchange of ideas between researchers from around the world)

The formation of a new social culture

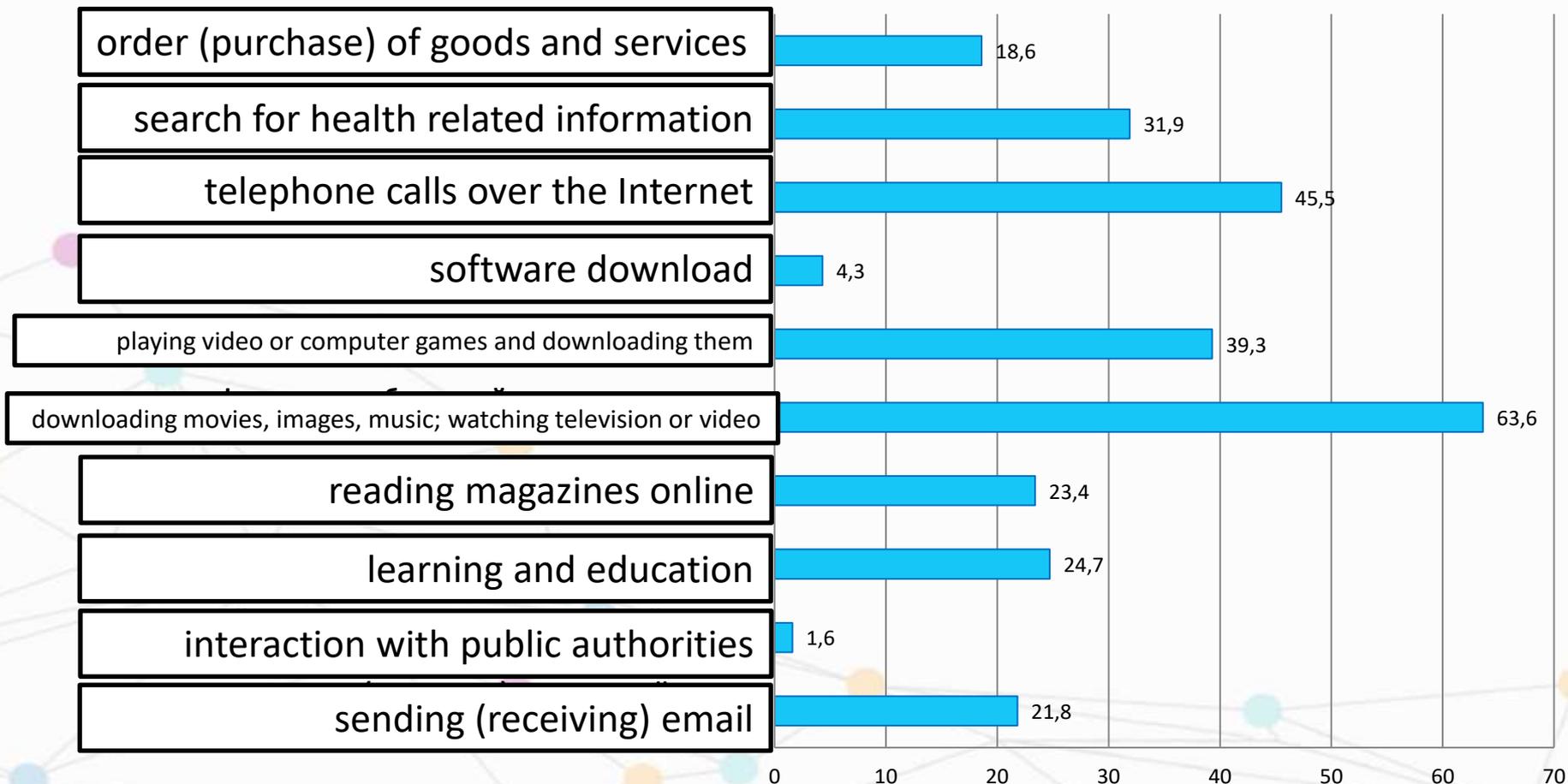
Teacher role transformation

University Mission Transformation???



Distribution of the population depending on the purpose of using Internet services, %

% population



данние статистического сборника государственной службы статистики в Украине, 2017

Obstacles in the formation of a digital landscape in the education system in Ukraine

- insufficiently regulated legal framework for digitalization of the education system;
- many Ukrainian universities lack (in whole or in part) a concept for the development of automated control systems;
- fragmented implementation of individual modules Automated control system;
- consumer distrust in innovative learning technologies;
- lack of qualified personnel in the field of information resources.
- a number of countries do not recognize on-line training in obtaining an educational degree Bachelor and Master;
- lack of motivation among teachers;
- unequal access of students to electronic resources due to economic and financial difficulties;
- uneven coverage of technological infrastructure in all regions of Ukraine

Conclusion

Objective

- A key challenge in shaping the digital landscape of educational spaces is to improve the accessibility and quality of education.

Benefit

The real advantages of digital conversion are not the optimization of individual technologies used, but the creation and operation of an integrated system.

Conditions

- The transformation of the education sector requires a deep analysis of the economic and social dynamics in society.

Conditions

- Building trust in digital educational products is possible through quality management, including the development of international standards, and accreditation procedures.

Conclusion

Conditions

- The strategy for the formation of a digital landscape in higher education should be integrated into the strategy of educational institutions, supported and promoted by the university administration in its implementation

Conditions

The effectiveness of innovative pedagogical technologies can be assessed only after comparative studies (at the national, international levels) and analysis of the data obtained

Conditions

- Formation of the legal framework for the digitalization of education and their harmonization at the national and international levels

Conditions

- Constructive interaction between the public and private sectors. Close interaction with technology product developers and content designers

Conclusion

Conditions

- Трансформация подготовки и профессионального развития преподавателей университета. Разработка системы мотивирующих факторов для преподавателей при цифровизации образования

perspectives

Transformation of the training and professional development of university teachers. Development of a system of motivating factors for teachers in the digitalization of education

important

In the conditions of transformation, it is important not to forget about the mission of the Universities

„If technology does not free people from the routine so that they can pursue higher human goals, then all technological progress is meaningless.“

Jacques Fresco — American Production Engineer, Industrial Designer, and Futurologist.