

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE  
WORLD BANK  
SSI «INSTITUTE OF EDUCATIONAL ANALYTICS»

**Informational and analytical support  
for the education system management  
in the context of implementing the norms  
of the Law of Ukraine «On Education»:  
problems and perspectives**

2017

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE  
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**ROUND TABLE**  
**«Informational and analytical support  
for the education system management in the context  
of implementing the norms of the Law of Ukraine  
«On Education»: problems and perspectives»**

November 30, 2017

**Purpose of the event:** a professional discussion on the development of informational and analytical support for the education system management in Ukraine, as well as the implementation of international standards for statistical information collection and processing in the field of education.

**Moderator of the event:** *Sergiy Londar, Acting Director of the Institute of Educational Analytics.*

**Opening speech:** *Satu Kahkonen, World Bank Country Director for Belarus, Moldova and Ukraine.*

**Reports and presentations:**

1. International experience in using EMIS in education management  
(*Lucia Casap, Operations Officer in the World Bank's Education Global Practice based in Moldova; Husein Abdul-Hamid, Senior Education Specialist and the Education Statistics Coordinator at the World Bank*).
2. [Forming the educational statistics development strategy in Ukraine](#)  
(*Volodymyr Kovtunets, Interim Minister of Education and Science of Ukraine*).
3. Modern tasks of education management in the context of its reforming  
(*Taras Kremin, Chairman of Subcommittee of the Verkhovna Rada Committee on Science and Education on preschool, secondary, inclusive education and providing realization of the right to education of individuals whose place of residence is the temporarily occupied territory, territory of where the antiterrorist operation has been carrying out and territory of settlements on the line of collision*).
4. [Modernization of DISO in context of tasks of the Law of Ukraine “On Education” and with regard to international practice](#)  
(*Sergiy Londar, Acting Director of the Institute of Educational Analytics*).

**Discussion:** informational and analytical support for the education system management; implementation of international standards for the statistical information collection and processing in the field of education.

[List of the round table participants](#)

## Presentation

### Modernization of DISO in context of tasks of the Law of Ukraine «On Education» and with regard to international practice

*Sergiy Londar, Acting Director of the Institute of Educational Analytics*



## MODERNIZATION OF THE STATE INFORMATION SYSTEM OF EDUCATION (DISO) IN CONTEXT OF PROVISIONS OF THE LAW OF UKRAINE «ON EDUCATION» AND WITH REGARD TO INTERNATIONAL PRACTICE

Sergiy Londar  
Acting Director of the Institute of Education Analytics,  
Doctor of Economic Sciences, Professor



## RESULTS OF THE DISO ASSESSMENT CONDUCTED BY THE WORLD BANK EXPERTS IN 2016

Four-level assessment system, levels: «latent» level (the lowest), «emerging» level, «established» level and «advanced» level (the highest).

- policy area «Enabling environment» was rated as «*established*».
- policy areas «System soundness» and «Quality data» were rated as «*emerging*».
- policy area «Utilization in decision making» got the lowest rating of «*latent*».



## RECOMMENDATIONS OF THE WORLD BANK EXPERTS TO PROMOTE THE DISO DEVELOPMENT:

- to develop and approve by the Ministry of Education and Science of Ukraine a medium-term comprehensive development plan for modernized DISO;
- to provide the possibility of integrating DISO with other information systems of educational data;
- to improve the methodology for verifying the reliability of statistical data and to implement quality assurance standards;
- to expand the specification of educational data collected in DISO, on the basis of data on human resources, financial data of educational institutions and data on the students' learning outcomes, etc.;
- to provide the accuracy, reliability and applicability of statistical data to support the process of making sound management decisions;
- to improve data validation capacities of verifying educational statistics;
- to introduce into the modernized DISO the built-in quality standards that would allow for the continuous self-improvement of the data management system;
- to empower and enable all stakeholders to utilize education data;
- to improve data dissemination strategies and tailor data presentation to the needs of the stakeholders' groups and availability of the feedback mechanisms;
- transition to the use of effective unique identifiers for students and teachers in the future.

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## TECHNICAL REQUIREMENTS FOR HARDWARE AND SOFTWARE SUPPORT OF THE DISO MODERNIZATION:

- most of the World Bank SABER-experts' recommendations have been taken into account;
- technical requirements are agreed with the World Bank, the Ministry of Finance of Ukraine was acquainted, approved by the Ministry of Education and Science of Ukraine;
- the document was discussed in the educational environment of Ukraine (information department of the Ministry of Education and Science, companies that create software products in the field of education such as Science-research Institute of Applied Informational Technologies (NDIPIT), Microsoft, New Knowledge, Social Eye, etc.);
- «Technical requirements» are the basis for the «Terms of Reference for DISO modernization»;
- «Terms of Reference» are now being designed by a technical consultant, chosen under the World Bank procedures;
- terms of Reference is to be ready by the end of 2017. They will also be widely discussed.

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## **ARTICLES OF THE LAW OF UKRAINE «ON EDUCATION», WHICH SHOULD BE TAKEN INTO ACCOUNT IN THE TERMS OF REFERENCE:**

- Article 10 «Components and levels of education»;
- Article 35 «Qualifications Framework»;
- Article 36 «Levels of National Qualifications Framework»;
- Article 41 «Education quality assurance system»;
- Article 72 «Educational statistics»;
- Article 74 «Unified State Electronic Education Database»;
- Article 78 «Education system funding».



## **DISO MODERNIZATION TASKS BASED ON THE WORLD BANK REPORT AND CURRENT EDUCATIONAL LEGISLATION OF UKRAINE:**

- Prepare the program documents to ensure the reliable institutionalization of DISO. In particular, it is necessary to take into account the need for implementation of the Law of Ukraine "On Education", adopted in 2017, in particular Articles 72 (Educational Statistics), 74 (Unified State Electronic Education Database); 34-37 (Educational qualifications);
- Create a Register of general education institutions and other establishments which provide secondary education. The collection of reliable and relevant evidence-based data on the state of the education system approved by the Ministry of Education and Science of Ukraine and the State Statistics Service of Ukraine (SSSU) by an indicators system covering information about the educational institution, educational staff, educators (students), institution financing;
- Create effective procedures for regular provision of educational-sector data to statistical bodies at the national (SSSU) and regional levels.



- Collect financial information in the context of individual general education institutions, united local communities, rayons and oblasts. Provide participants of the budget process at the national and regional levels with this information for the purpose of expenditures on education planning, in particular the distribution of educational subventions. Ensuring the possibility of analyzing the effectiveness of using educational budget funds.
- Provide the possibility of integration into the DISO of statistical data from various sources, in particular, Ukrainian Center for Educational Quality Assessment (UCEQA), Unified State Electronic Education Database, educational institutions – pre-schools educational institutions, schools, vocational and technical educational institutions, higher education institutions, public education authorities, in particular: the Ministry of Education and Science, the Ministry of Finance of Ukraine, national and international education-quality assessment projects (PISA, TIMSS, etc.).
- Ensure the monitoring of education quality and availability for educational authorities and the general public.
- Create the informational support of functioning of the portal of open, de-personified evidence-based statistical and analytical data on the status and results of educational activities, the results of monitoring the quality and availability of general education at all levels. Provide the ability to generate educational reports automatically. Using Google Maps and the School Geo-referential System with their average rating for parents to ensure school accountability.

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## **DIRECTIONS OF THE INSTITUTE OF EDUCATIONAL ANALYTICS ACTIVITY FOR THE NEAREST FUTURE, WHICH REQUIRE GRANT SUPPORT**

- improvement of the legal framework, which regulates educational measurements and educational analytics in Ukraine;
- expansion of analytical-research tool kit;
- quality control of professional training;
- accessibility of education in rural areas;
- others.

**Work in these areas could be substantially intensified and accelerated provided that the Institute receives appropriate grant support.**

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**Photos of round table participants**

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