

Regarding the provision of computer equipment for the educational needs

As a result of Russian Federation's military aggression, hundreds of Ukrainian schools have been damaged, looted, or destroyed. Thousands of schools have been closed. More than 1.6 million children in Ukraine have been forced to switch to remote learning. A third among them lack access to remote education due to deficient technical resources or connectivity.

The lack of access exacerbates learning losses and impacts the psychological well-being of children. Without proper education, these children risk not realizing their potential, which will affect their future and the development of our society. Basic education is a fundamental right guaranteed by the Constitution of Ukraine. Therefore, restoring access to it is one of the state's priorities.

According to the World Bank report, learning losses in Ukraine can amount to over one year, due to extended pandemic-related closures of educational institutions and the war. This could critically decline the learning outcomes to levels lower than those of countries with the lowest indicators in Europe.

The long-term economic effect is significant, as the World Bank data claims that Ukrainian students' losses may amount to at least 10% of their future income/earnings.

In addition, children who do not have access to offline learning during the war, lack interaction with peers, and do not have the technical means to participate in remote learning are at an elevated risk not only in terms of acquiring basic education but also due to a low level of socialization, lack of access to communication, information, and entertainment, which will affect and disrupt a child's psychosocial well-being and development.

The challenges currently facing the Ukrainian educational system due to Russia's military aggression demand prompt cooperation among government bodies, local self-government, educational institutions, and partners. Since the outset of the full-scale invasion, the Ministry of Education and Science of Ukraine (MoES) has initiated systematic communication with international and local partners to provide educational institutions and participants of the educational process with the necessary computer equipment.

As of September 2023, 12 organizations have donated 134,453 units of computer equipment for educational purposes. These donations are distributed as follows:

- for the needs of educational staff – 96,011 units (satisfying 54% of the need);
- for the needs of the students – 38,442 units (satisfying 10% of the need);
- to enhance the material and technical support of educational institutions, including computer science classes – 1,353 units.

All information regarding the received equipment, user types, partner organizations facilitating the donations, etc., can be tracked through an interactive public dashboard created and presented by the MoES and the Ministry of Digital Transformation: <https://cutt.ly/cwcyZUXb>.

According to the current agreements, by the end of 2023 to early 2024, the transfer of over 50,000 additional units of equipment is planned to be delivered for students from vulnerable social groups who lack access to remote learning due to the absence of gadgets. Thus, **the expected need for the students throughout Ukraine will be 327,929 units.**

The current priority is focused on 10 regions with a high percentage or a large number of children engaged in distance learning, or whose communities are directly adjacent to russia and where offline education is not expected to resume quickly. These regions are Dnipropetrovsk, Donetsk, Zaporizhzhia, Luhansk, Mykolaiv, Odesa, Sumy, Kharkiv, Kherson, and Chernihiv. **The total equipment need for children in these regions is 96,449 units of computer equipment.**

Therefore, the current remaining need, across all regions of Ukraine is 327,929 units for children and 81,351 units for teachers.

Region	Current need Teachers	Current need Socially vulnerable children
Vinnitsia	7 089	17 425
Volyn	3 681	1 569
Dnipro	3 833	12 710
Donetsk	667	14 101
Zhytomyr	2 440	535
Zakarpattia	3 345	9 087
Zaporizhzhia	2 743	8 372
Ivano-Frankivsk	6 249	30 902
Kyiv	1 903	12 993
Kirovohrad	2 921	10 454

Luhansk	341	2 576
Lviv	7 033	23 220
Mykolaiv	2 072	11 343
Odesa	2 067	8 307
Poltava	3 141	7 431
Rivne	6 013	42 335
Sumy	910	12 856
Ternopil	4 433	23 113
Kharkiv	473	9 624
Kherson	1 183	10 373
Khmelnysky	5 063	12 511
Cherkasy	4 153	3 733
Chernivtsi	2 797	25 145
Chernihiv	1 105	6 187
Kyiv city	5 696	11 027
Total	81 351	327 929

Minimum standards and specifications for computer equipment that can be used in the educational process have been defined by the MoES order dated November 2, 2017, No. 1440: <https://zakon.rada.gov.ua/laws/show/z0055-18#Text>.

Based on calculations made by the MoES, considering completed projects and market estimates for educational equipment (referred to as low-spec devices, with a cost of approximately \$265 USD or 9,771.02 UAH per laptop), **the estimated budget for these needs across Ukraine is approximately \$87 million USD or 3.2 billion UAH.**

To cover the critical needs in the mentioned 10 regions, the total investment required is approximately \$26 million USD or 942 million UAH.