

ROLE OF DIGITALLY ENHANCED EDUCATION IN TIME OF WAR

AUTHOR: PHD, OKSANA ZAMORA

SUMY STATE UNIVERSITY, UKRAINE



STOP TO THINK FOR A
MOMENT:



- How do you feel deep and never-ending fear?
- What happens to a person living in fear for half a year and more?
- For how many days do you have water and food reserves in your house?
- Do you think your neighbors are kind people? Will they help you if you need water, a place in a car to run from the city?
- What things will you take in a backpack if you need to run from home at 5.00 in the morning?
- Do you have a place to stay if your house is ruined?
- How Internet is important for you to learn the news or where to run?
- How will you earn for living if you must leave your country?
- Do you think you would feel safe if you find refuge somewhere in the EU?
- **Will you be able to study if you need to run to the shelter 3-5 times a day or in the night?**
- **Will you be able to support your students if you are exhausted with fear for your future, your beloved ones, your country?**

FAMILY SECRETLY FILMS LIFE IN RUSSIAN- OCCUPIED UKRAINE - BBC NEWS



[HTTPS://WWW.YOUTUBE.COM/WATCH?V=QSAXDUOXOGU](https://www.youtube.com/watch?v=QSAXDUOXOGU) 16MIN

DO PEOPLE STUDY DURING WARS?

- DESTROYED INFRASTRUCTURE
- DISPLACED MEMBERS OF THE UNIVERSITY COMMUNITY
- LACK OF MONEY
- TRANSPORTATION CRISIS
- LACK OF MEDICINE, FOOD, BASIC GOODS...
- MORAL AND PSYCHOLOGICAL STRUGGLES – THREAT FOR LIFE, FEAR, SLEEPING DISORDER, WORRYING FOR THE BELOVED ONES AND THE COUNTRY...



ABOUT 13MLN UKRAINIANS FLED THEIR HOMES

DISPLACEMENT OF 5,2 MLN CHILDREN – MORE THAN 50% OF THE COUNTRY'S ESTIMATED 7.5 MLN CHILD POPULATION;

15.7 MLN UKRAINIAN CITIZENS (AS OF 26 APRIL) ARE ESTIMATED TO BE IN URGENT NEED OF HUMANITARIAN ASSISTANCE

Russia uses civilians as hostages and human shield, with no food, water, electricity and communication. Forces to “act” as its soldiers...



RUSSIAN TERRORISM IN UKRAINE:

- Cyber attacks and fake news campaigns;
- Execution of civilians, hiding tracks in mobile crematoriums and mass graves = GENOCIDE;
- Mines in the fields and children's toys;
- Criminal atrocities with the most inhuman shades: tortures, raping, humiliation, looting;
- Shelling and robbing humanitarian convoys;
- Filtration/resettlement camps;
- Forced relocation and destroying of passports;
- Intimidations and hunt by the Russian occupiers for activists, journalists and local authorities;
- Forced blood donation by students;
- Extensive environmental damage;
- Forced conscription and staged "census" to hold a "referendum" in more regions despite civilians' protests.



The world thought that war would have meant total devastation to all the systems, especially educational. However, Ukrainian educators and the supporting services proved different

3.7 MILLION UKRAINIAN CHILDREN ACCESSED ONLINE/DISTANCE LEARNING SINCE FEBRUARY 2022 EVEN THOUGH SOME SCHOOLS WERE CLOSED

Digitalization has become a flagship topic in Ukraine during the last 2 years.

- among the 15 largest exporters of IT services globally.
- the 1st country with a valid digital ID.
- the 4th in Europe with a digital driving license.
- the Internet penetration rate among users aged 12-70 was 86% in 2021 which is more than in Poland or Romania.
- the majority of important public services (e.g. DIIA app, e-governance academy, ProZorro for public procurements, E-trade initiative for exports) including health management (eBaby, eHealth) and e-banking are available online.

Statistical data demonstrate that **480000** Ukrainian school children despite having been displaced towards **120 countries** of the world continued to study via **all-Ukrainian online school** designed during COVID by a private online educational NGO Osvitoria for the ministry of education.

THE KEY WORDS OF THIS WAR AS LESSONS:

- INTERNET ACCESS
- FLEXIBILITY
- VOLUNTEERING/GOODWILL
- RESILIENCE
- INTERNATIONAL SUPPORT





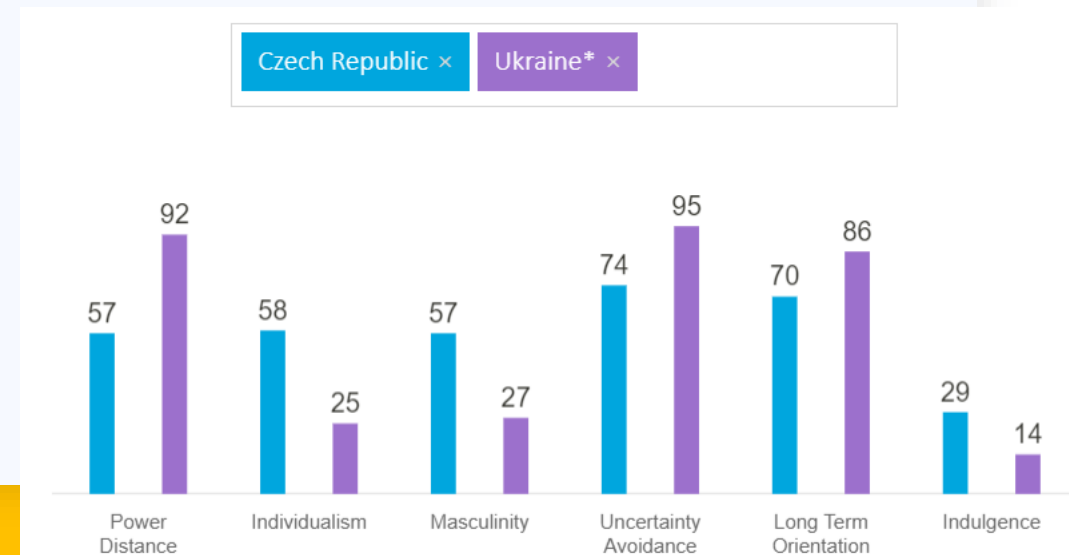
WAR = ANOTHER NEW REALITY

- DIFFERENT APPROACH TO DELIVERING MATERIAL (E.G. ONLINE EXTERNAT, LESS CLASSES)
- LIGHTER KNOWLEDGE ASSESSMENT METHODS
- FLEXIBILITY IN HOLDING CLASSES, E.G. SIRENS/BOMBING DURING THE CLASS - ?
- REMOTE PAPER FLOW, E.G. E-SIGNATURE USE
- ADVANCED NEED FOR PSYCHOLOGISTS ENGAGEMENT, RELAXING EXERCISES, E.G. CREATIVITY...
- EXTRA CURRICULUM ACTIVITIES ARE ALSO ONLINE
- FEELING OF SAFETY, ESPECIALLY FOR IDPS IN NEW SCHOOLS

SUPPORTED BY: Directives from the Ministry of Education and Science on educational process + Strategy on the Development of Higher Education in 2022-2023.

What has changed for refugees: school children and students?

1. Stressful studying in new environment: foreign language, foreign system... NOT ready for that.
2. Self-identification issues, missing homeland and relatives and friends, bullying...
3. Increased role of a parent (often mother): only parent, translation needed, explanation of the material and exercises, intermediary with the school and outer world – the younger a child the bigger.
4. Impact of the mood of a parent (depressed, scared, sad mother) and missing the other parent. Separate stress when the father is military engaged or on the occupied territory.
5. Different cultural context: unspoken messages, schedules, deadlines, attitude, life values communication.



DIGITALLY ENHANCED SOLUTIONS FOR EDUCATION

**Online
kindergarten**

**Online primary
school**

**Online secondary
school**

**Single online
schedule “Be Active
for the Sake of Peace”**

**free of charge
access to courses
of other
universities, e-
platforms**



**Broadcasting by
private and national
TV channels**

**Websites
accumulating open
online schools and
HEIs, psychological
support sources**

**Creative solutions
from private
platforms (EdEra,
Osvitoria,)**

**Resources for
teachers of all levels:
materials and
training**

Examples of solutions

1. “All-Ukrainian school online”, “Na Urok”: schoolchildren of 5-11 grades watch asynchronously the broadcasted\recorded classes from MoES (TV channels Pixel, PlusPlus, Megogo, Kyivstar TB, 1+1 video, sweets.tv. Parents choose lower quality of the videos to economize traffic or if its low.
2. Public and private organizations omitted WI-FI passwords for the people living near to use it for free.
3. Info Science Bot, Education Chat Bot
4. Educational seminars/webinars for teachers, e.g. by EdEra and NGO “Smart Osvita”, Google
5. Goodwill: methodological guides for kids’ (1-11 grades) self-studying for parents, e.g. Athens school. Include the links to the e-books and tests. Need limited Internet traffic.



Examples of solutions

- 1.Recommendations from MoES to have more interactions, conversations, active tasks, e.g. include online-games, e.g. Mediaznaiko, Adventures of Literatus, etc.
- 2.Free access from Microsoft, Google, Zoom.
- 3.Free use of mobile phone data by Vodafone, Lifecell, Kyivstar.
- 4.Free laptops to IDPs from UNICEF, Google, etc.
- 5.Free access to Coursera, Udemy, eDX, Code.org
- 6.“War Child” (NL) project on gamification tools design for 1-4 grades kids
- 7.“Klett Publishers” (GR) and “Ranok” publishing house are designing interactive digital textbooks
- 8.Websites with support resources for the staff, e.g. UAScience.reload
- 9.Ukrainian Global University, cooperates with DuoLingvo
- 10.E-admission, e-examination



Websites, applications and chats: from air attacks alarms to online kindergarten

eo.gov.ua

ОСВІТНІЙ ОМБУДСМЕН УКРАЇНИ

ОСВІТНІЙ ПРОЦЕС, ДИСТАНЦІЙНЕ НАВЧАННЯ В УМОВАХ ВОЄННОГО СТАНУ ТА ОТРИМАННЯ ДОКУМЕНТІВ ПРО ОСВІТУ

1. Чи може дитина, яка знаходиться за кордоном, продовжити навчання в школі на території України?
2. Чи потрібно для зарахування до української школи довідку внутрішньо переміщеної особи?
3. Як дитині, яка внаслідок війни вимушено перемістилася за кордон, отримати українське свідоцтво про середню освіту?
4. Як мають працювати заклади дошкільної освіти?
5. Чи доречно під час дистанційного навчання в умовах воєнного стану навантажувати впродовж навчального дня учнів тестами, самостійними та контрольними роботами?

mon.gov.ua

ВСЕУКРАЇНСЬКИЙ РОЗКЛАД «БУДЬ АКТИВНИМ ЗАРАДИ МИРУ»

Facebook Twitter LinkedIn Google+

Розклад спортивно-оздоровчих гуртків

Сьогодні червень 2022

пн	вт
10:00 Баскетбол	10:00 Чирлідінг
10:00 Хореографія 11:00 Баскетбол. Фітнес	09:30 Весела Руханка 10:00 Чирлідінг 11:00 Волейбол
10:00 Хореографія 11:00 Баскетбол	09:30 Весела Руханка 10:00 Чирлідінг 11:00 Волейбол

Освітній чат-бот

Вітаємо!
Цей чат-бот допоможе знайти необхідну інформацію щоб повернутися до навчання, де б ви не знаходилися, а саме про те:

- ✓ Як знайти садочок, школу або коледж за кордоном;
- ✓ Як долучитися до онлайн-навчання в Україні;
- ✓ Як відновити особисті чи документи про освіту;
- ✓ Як продовжувати викладати та працювати під час війни,

і багато інших корисних матеріалів.

Але для початку давайте познайомимось.
Як Вас звати?

напишіть своє Ім'я тут

Меню Повідомлення

НУМО! ДИТЯЧИЙ САДОЧОК ОНЛАЙН

UNICEF Ukraine

НУМО! - дитячий... 72/73

UNICEF Ukraine

- Дитячий садок... UNICEF Ukraine 352 перегляди • 16 годин тому
- Дитячий садок... UNICEF Ukraine 671 перегляд • 3 дні тому
- Дитячий садок... UNICEF Ukraine 703 перегляди • 4 дні тому
- Дитячий садок... UNICEF Ukraine 702 перегляди • 5 днів тому
- Дитячий садок... UNICEF Ukraine

You try to study using your phone and maybe low Internet speed

"У нас поганий зв'язок.

Те, що підійшло нам:

1. Дивимось відео зі Всеукраїнського розкладу МОН – ставимо найнижчу якість зображення.
2. Репетиторка з англійської на безкоштовній основі пише пояснення та завдання з підручника. Далі виконання і фото. Далі коментарі вчительки текстом".

Оксана, Київська область

"Була б дуже вдячна за аудіоуроки і завдання, що можна робити в зручний час.

Самостійно дитина не має стимулу займатися через непередбачуваний графік тривоги і змінену реальність".

Наталія, місто Львів

"Діти не висипаються через лунання сирен. На мою думку, зараз краще зменшити навантаження на дітей, оскільки у більшості

"Ми не бігаємо в підвал. Але часом зникає світло та інтернет. В такому випадку нам зручно робити уроки по відеозапису. Коли є світло та інтернет, то вчитель проводить онлайн-зустрічі".

Ксенія, місто Київ

"У нас тільки телефони з собою. А онлайн через телефон дуже незручно. Займаємось самостійно. Було би добре мати програму і завдання для виконання, а слабкі місця я бачу і сама.

Можливо нам просто "не зайшло" дистанційне під час локдауну – діти кричали, губили місце, де працює клас, ніхто нічого не засвоював. Відео, які нам давали досі, на жаль, не несли особливої цінності".

**Олександра, місто Мелітополь,
Запорізька область**

"У нас поганий зв'язок.

Ми використовуємо [cookies](#)

Погоджуюсь

< Events

Top Local This week Classes F



WED, JUN 29 AT 5 PM UTC+02
**Серія освітніх вебсеминарів
для вчителів**

Ми, студія онлайн-освіти EdEra та ГО «Смарт Освіта», хочемо підтримати та надихнути освітан у цей непростий час і розповісти про нові вектори розв... See More
20 interested · 3 going

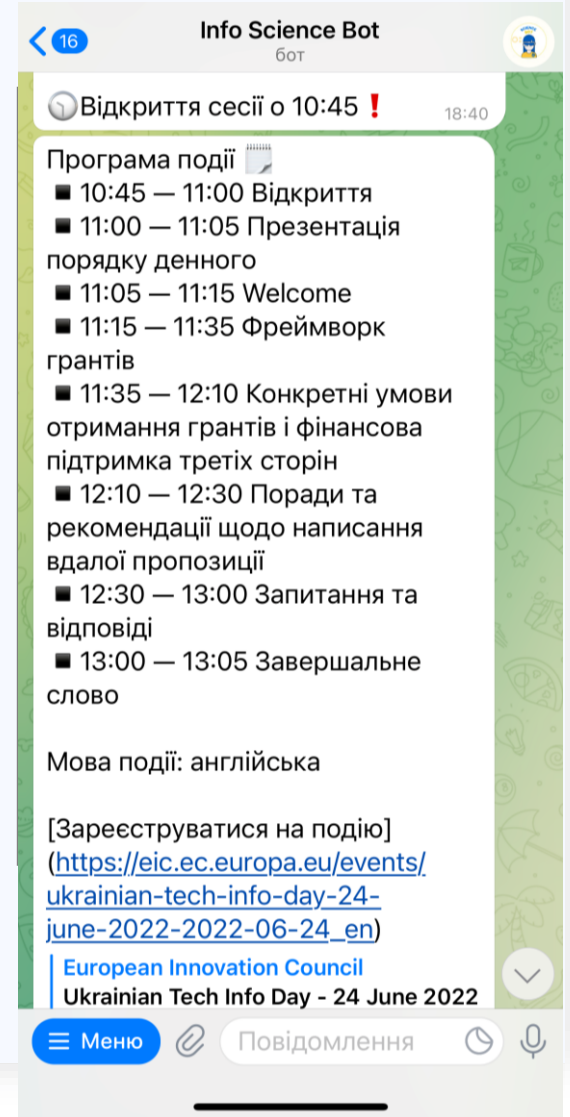
...

Your events

See all



Home Watch Communities Notifications Menu





In addition to effective and comprehensive digital solutions, the country has **resilient Internet infrastructure**, which recovers very fast despite the damages.

However, the electricity blackouts cut the internet fully. Blackouts hit **10 million** in Ukraine after Russian strikes



Educated youth is our hope
to rebuild the country and
resurrect.

Always take sides. Neutrality
helps the oppressor, never the
victim. Silence encourages the
tormentor never the tormented.

Elie Wiesel

Romanian-born American Jewish writer, professor, political activist,
Nobel Laureate and Holocaust survivor.

**Thank you for your
attention!**

RESOURCES TO LEARN MORE ABOUT DIGITALLY ENHANCED EDUCATION IN THE WARTIME UKRAINE:

1. School Navigator <https://bit.ly/3sFkZg5>
2. distance learning center “Dzherelo” <https://cdo.org.ua>
3. Scientific lyceum Klyma Churiumova <https://bit.ly/3hCf6dm>
4. distance learning school “Optima” <https://optima.school/free-education>
5. ThinkGlobal platform
6. Alterra online externat
7. OkStudy platform
8. Atmosphere school <https://atschool.com.ua>
9. Modern Education Academy <https://alpus.ua>
10. Viber community by research school Basis https://vb.me/school_info
11. JAMM school <https://jammschool.com.ua>
12. [IT education promotion for schools in UA https://code.org](https://code.org)
13. Mozabook from MOZAIKA publishing house

RESOURCES TO SEE MORE ABOUT THE WAR:

1. [HTTPS://UACULTURE.ORG/CULTURE-LOSS/](https://uaculture.org/culture-loss/) - LOSSES IN CULTURAL HERITAGE
2. [HTTPS://CHYTOMO.COM/EN/CULTURAL-DISASTER-WHAT-UKRAINIAN-SITES-WERE-DESTROYED-BY-RUSSIAN-OCCUPANTS/](https://chytomo.com/en/cultural-disaster-what-ukrainian-sites-were-destroyed-by-russian-occupants/)
3. [HTTPS://WWW.GOOGLE.COM/MAPS/D/U/0/VIEWER?MID=10LH0WYFKKWTIBG8WUBY3BBFAAYVWG5U&LL=49.67559994802009%2C33.38892003437499&Z=6&FBCLID=IWAR03NGOP14TYQVPJFWXHDSRDZ5GQHQ6OL8ZF0H8QEYG4TBFMX5REAE T3Q1A](https://www.google.com/maps/d/u/0/viewer?mid=10LH0WYFKKWTIBG8WUBY3BBFAAYVWG5U&ll=49.67559994802009%2C33.38892003437499&z=6&fbclid=IWAR03NGOP14TYQVPJFWXHDSRDZ5GQHQ6OL8ZF0H8QEYG4TBFMX5REAE T3Q1A) RELIGIOUS LOSSES
4. [HTTPS://TWITTER.COM/HRW/STATUS/1523618844362878976](https://twitter.com/hrw/status/1523618844362878976) RESETTLEMENT CAMPS
5. OFFICIAL TRANSLATION OF INTERCEPTIONS: [HTTPS://WWW.MILITARYLINGUIST.COM.UA/WARTIME-INTERCEPTIONS-2/?FBCLID=IWAR1M1KDN5P3ENMPAUSS1MU1HERBN4JLD9PNMMCUA1YKPJDWED5YR95DYEEG](https://www.militarylinguist.com.ua/wartime-interceptions-2/?fbclid=IWAR1M1KDN5P3ENMPAUSS1MU1HERBN4JLD9PNMMCUA1YKPJDWED5YR95DYEEG)
6. DAILY OVERALL ANALYSIS: [HTTPS://WWW.FACEBOOK.COM/PRISMUA](https://www.facebook.com/prismua)
7. FOREIGN POLICY ANALYSIS CENTER: [HTTP://PRISMUA.ORG/EN/](http://prismua.org/en/)
8. FACT CHECKERS CHANNELS FIGHTING WITH RUZZIAN PROPAGANDA: [HTTPS://WWW.STOPFAKE.ORG/EN/MAIN/](https://www.stopfake.org/en/main/) AND [HTTPS://T.ME/THECENTERFORCOUNERINGDISINFO](https://t.me/thecenterforcouneringdisinfo)
9. TRUSTED NEWS AND PEOPLE'S STORIES CHANNELS: [HTTPS://T.ME/UP_STRICHKA](https://t.me/up_strichka) IT'S A WEBSITE OF FACT CHECKERS ON INSTAGRAM [HTTPS://WWW.INSTAGRAM.COM/WEAREUKRAINE.INFO?IGSHID=YMMYMTA2M2Y=](https://www.instagram.com/weareukraine.info?igshid=yummyta2m2y=) [HTTPS://WWW.INSTAGRAM.COM/UKRAINIANTRUTH?IGSHID=YMMYMTA2M2Y=](https://www.instagram.com/ukrainiantruth?igshid=yummyta2m2y=) [HTTPS://WWW.INSTAGRAM.COM/UKRAINIANHEROESAREHERE?IGSHID=YMMYMTA2M2Y=](https://www.instagram.com/ukrainianheroesarehere?igshid=yummyta2m2y=) MINISTERIAL CHANNEL OF FAKES COUNTERACTING [HTTPS://WWW.INSTAGRAM.COM/P/CC73UNMMEN9/?IGSHID=YMMYMTA2M2Y=](https://www.instagram.com/p/cc73unmmen9/?igshid=yummyta2m2y=)

RESOURCES TO LEARN MORE ABOUT DIGITALLY ENHANCED EDUCATION IN THE WARTIME UKRAINE:

1. School Navigator <https://bit.ly/3sFkZg5>
2. distance learning center “Dzherelo” <https://cdo.org.ua>
3. Scientific lyceum Klyma Churiumova <https://bit.ly/3hCf6dm>
4. distance learning school “Optima” <https://optima.school/free-education>
5. ThinkGlobal platform
6. Alterra online externat
7. OkStudy platform
8. Atmosphere school <https://atschool.com.ua>
9. Modern Education Academy <https://alpus.ua>
10. Viber community by research school Basis https://vb.me/school_info
11. JAMM school <https://jammschool.com.ua>
12. [IT education promotion for schools in UA https://code.org](https://code.org)
13. Mozabook from MOZAIKA publishing house

RESOURCES TO SEE MORE ABOUT THE WAR:

1. [HTTPS://UACULTURE.ORG/CULTURE-LOSS/](https://uaculture.org/culture-loss/) - LOSSES IN CULTURAL HERITAGE
2. [HTTPS://CHYTOMO.COM/EN/CULTURAL-DISASTER-WHAT-UKRAINIAN-SITES-WERE-DESTROYED-BY-RUSSIAN-OCCUPANTS/](https://chytomo.com/en/cultural-disaster-what-ukrainian-sites-were-destroyed-by-russian-occupants/)
3. [HTTPS://WWW.GOOGLE.COM/MAPS/D/U/0/VIEWER?MID=10LH0WYFKKWTIBG8WUBY3BBFAAYYVWG5U&LL=49.67559994802009%2C33.38892003437499&Z=6&FBCLID=IWAR03NGOP14TYQVPJFWXHDSRDZ5GQHQ6OL8ZF0H8QEYG4TBFMX5REAE T3Q1A](https://www.google.com/maps/d/u/0/viewer?mid=10LH0WYFKKWTIBG8WUBY3BBFAAYYVWG5U&ll=49.67559994802009%2C33.38892003437499&z=6&fbclid=IWAR03NGOP14TYQVPJFWXHDSRDZ5GQHQ6OL8ZF0H8QEYG4TBFMX5REAE T3Q1A) RELIGIOUS LOSSES
4. [HTTPS://TWITTER.COM/HRW/STATUS/1523618844362878976](https://twitter.com/hrw/status/1523618844362878976) RESETTLEMENT CAMPS
5. OFFICIAL TRANSLATION OF INTERCEPTIONS: [HTTPS://WWW.MILITARYLINGUIST.COM.UA/WARTIME-INTERCEPTIONS-2/?FBCLID=IWAR1M1KDN5P3ENMPAUSS1MU1HERBN4JLD9PNMMCUA1YKPJDWED5YR95DYEEG](https://www.militarylinguist.com.ua/wartime-interceptions-2/?fbclid=IWAR1M1KDN5P3ENMPAUSS1MU1HERBN4JLD9PNMMCUA1YKPJDWED5YR95DYEEG)
6. DAILY OVERALL ANALYSIS: [HTTPS://WWW.FACEBOOK.COM/PRISMUA](https://www.facebook.com/prismua)
7. FOREIGN POLICY ANALYSIS CENTER: [HTTP://PRISMUA.ORG/EN/](http://prismua.org/en/)
8. FACT CHECKERS CHANNELS FIGHTING WITH RUZZIAN PROPAGANDA: [HTTPS://WWW.STOPFAKE.ORG/EN/MAIN/](https://www.stopfake.org/en/main/) AND [HTTPS://T.ME/THECENTERFORCOUNERINGDISINFO](https://t.me/thecenterforcouneringdisinfo)
9. TRUSTED NEWS AND PEOPLE'S STORIES CHANNELS: [HTTPS://T.ME/UP_STRICHKA](https://t.me/up_strichka) IT'S A WEBSITE OF FACT CHECKERS ON INSTAGRAM [HTTPS://WWW.INSTAGRAM.COM/WEAREUKRAINE.INFO?IGSHID=YMMYMTA2M2Y=](https://www.instagram.com/weareukraine.info?igshid=yummyta2m2y=) [HTTPS://WWW.INSTAGRAM.COM/UKRAINIANTRUTH?IGSHID=YMMYMTA2M2Y=](https://www.instagram.com/ukrainiantruth?igshid=yummyta2m2y=) [HTTPS://WWW.INSTAGRAM.COM/UKRAINIANHEROESAREHERE?IGSHID=YMMYMTA2M2Y=](https://www.instagram.com/ukrainianheroesarehere?igshid=yummyta2m2y=) MINISTERIAL CHANNEL OF FAKES COUNTERACTING [HTTPS://WWW.INSTAGRAM.COM/P/CC73UNMMEN9/?IGSHID=YMMYMTA2M2Y=](https://www.instagram.com/p/cc73unmmen9/?igshid=yummyta2m2y=)