



THE CONCEPT OF RESTORATION

OF EDUCATIONAL INSTITUTIONS IN KHARKIV





PROJECT GOAL

To develop relevant projects for the restoration of educational institutions in Ukraine taking into account the class of consequences and damage to buildings, ensure the scaling of the project, get rid of the monotony and repeatability characteristic of this functional unit, and work to achieve energy efficiency goals.

The new generation of schoolchildren requires **significant changes in the educational system** and **the educational process** as a whole.

It also calls for a **review of the principles of forming school buildings**, recreational spaces, and spatial design.





PROJECT TASKS:

Analysis, structure of educational institutions, classes of destruction and development of a project for new construction, restoration, reconstruction of destroyed or damaged schools throughout Ukraine.

Development of a project proposal for an educational institution based on Gymnasium No. 47 of the City of Kharkiv.



SITUATION IN THE REGION



DAMAGED

234

EDUCATIONAL INSTITUTIONS



127



107



LOSSES OF

\$ 20 mln



RESTORED

46

EDUCATIONAL INSTITUTIONS



33



13

One of the criteria for returning people to cities is
the opportunity for children to learn

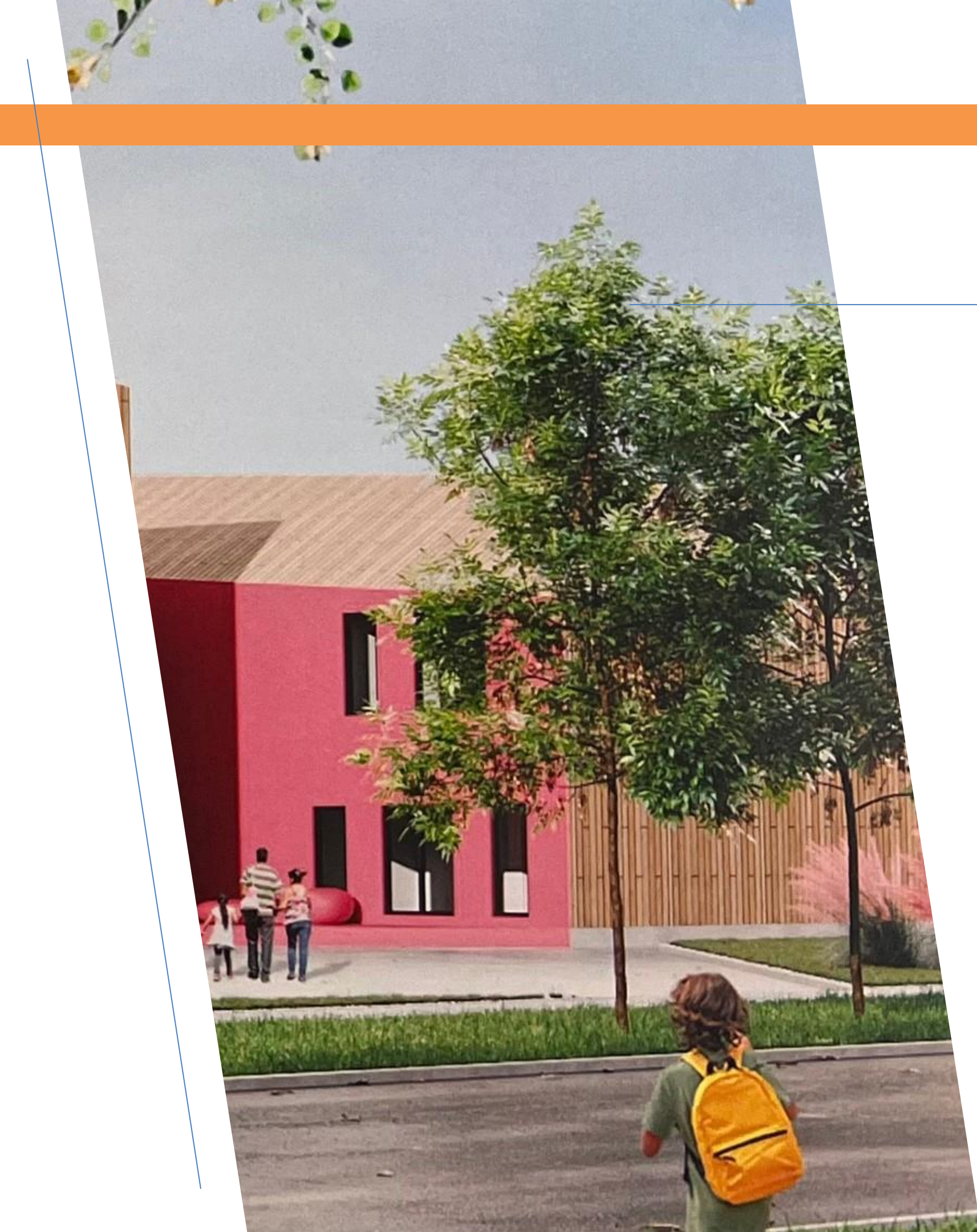


CRITERIA FOR RECOVERY

For a thorough approach to restoration, it is necessary to create a database of educational institutions that have been destroyed with the involvement of specialized experts.

A qualification assessment of the scale of destruction will help us distribute damaged educational institutions into several groups:

- Building repairs / major repairs required
- Damage to a separate section, part-restoration of a fragment of a building significant damage, the building cannot be restored
- The building is not damaged, does not need to be repaired, but needs to be upgraded/expanded/scaled





THE SCHOOL OF INDESTRUCTIBLE UKRAINE

Rethinking the school project: the requirements of safety standards (bomb shelters), criteria for sustainable development in architecture, the principles of Active House in designing and creating the image of the school of indestructible Ukraine.

New trends and the digitalization of the educational process are forcing us to thoroughly reformulate our approach to education, to reconsider the principles of educational institutions, recreational spaces, and design.

Development of a project proposal for an educational institution on the basis of gymnasium No. 47 in Kharkiv.

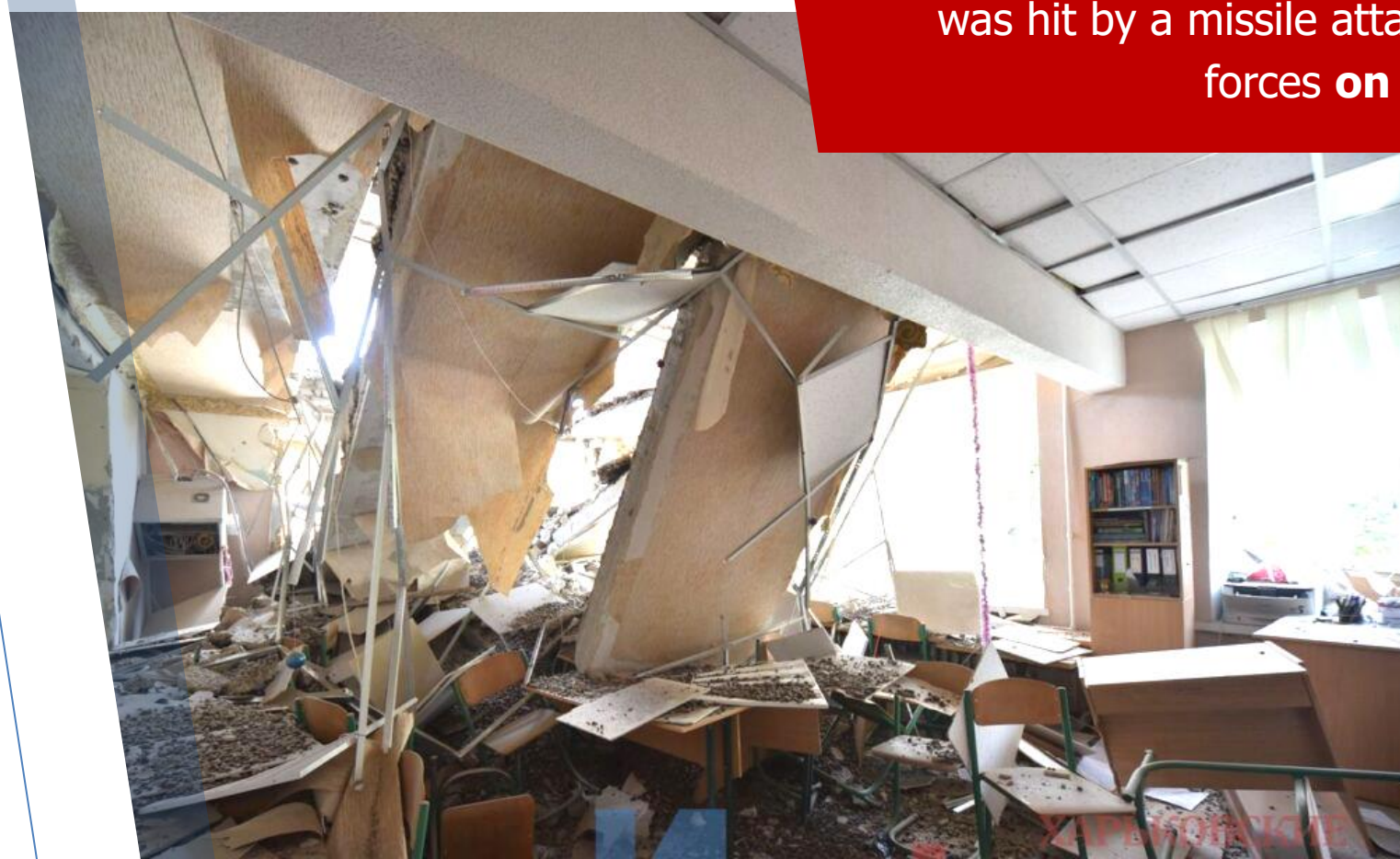
The team has developed a project to restore the school, which can become one of the symbols of rethinking the education system and approaches to designing educational institutions.





Gymnasium No. 47 in Kharkiv

was hit by a missile attack from Russian occupation forces **on July 4, 2022**



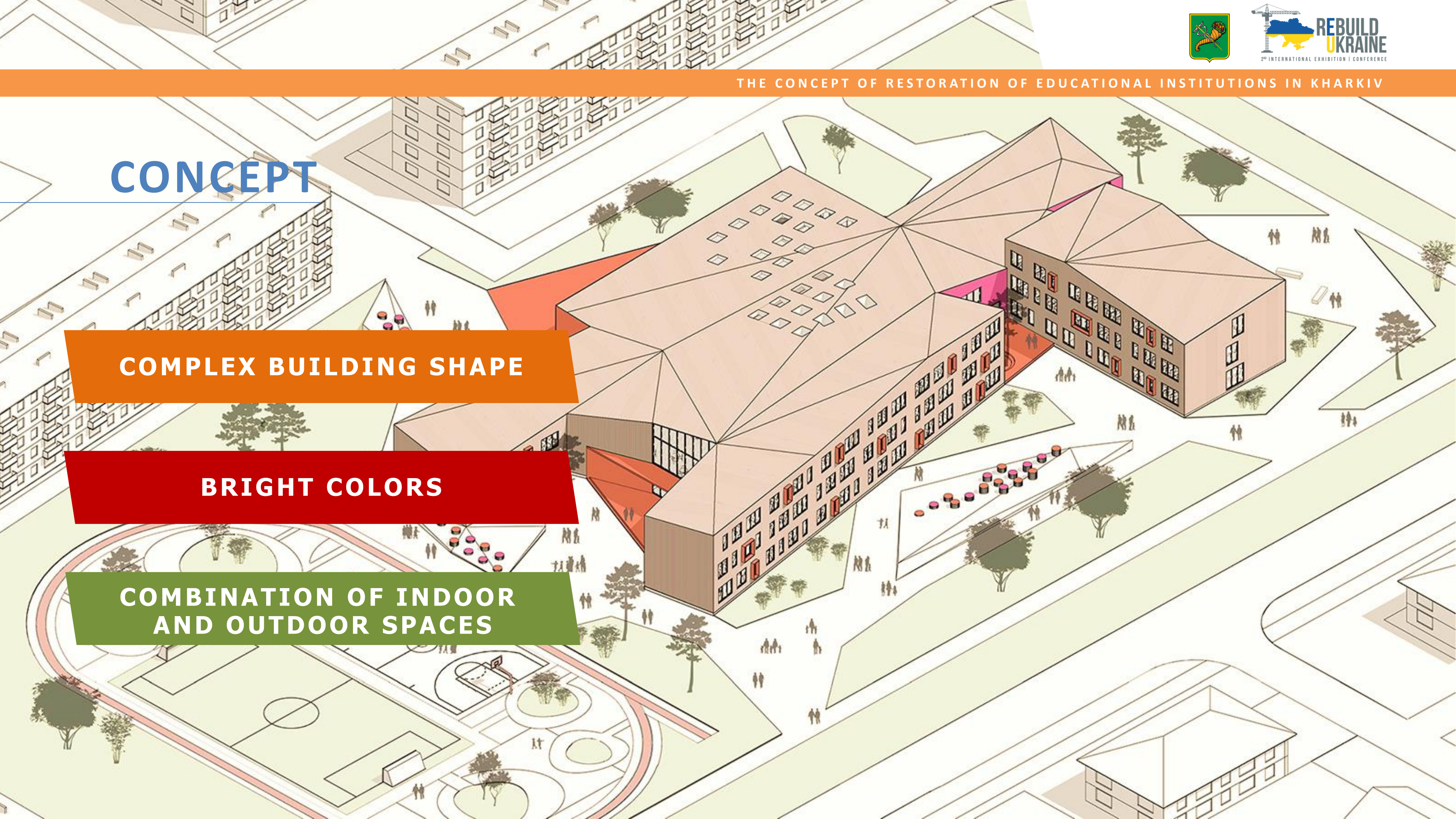


CONCEPT

COMPLEX BUILDING SHAPE

BRIGHT COLORS

**COMBINATION OF INDOOR
AND OUTDOOR SPACES**





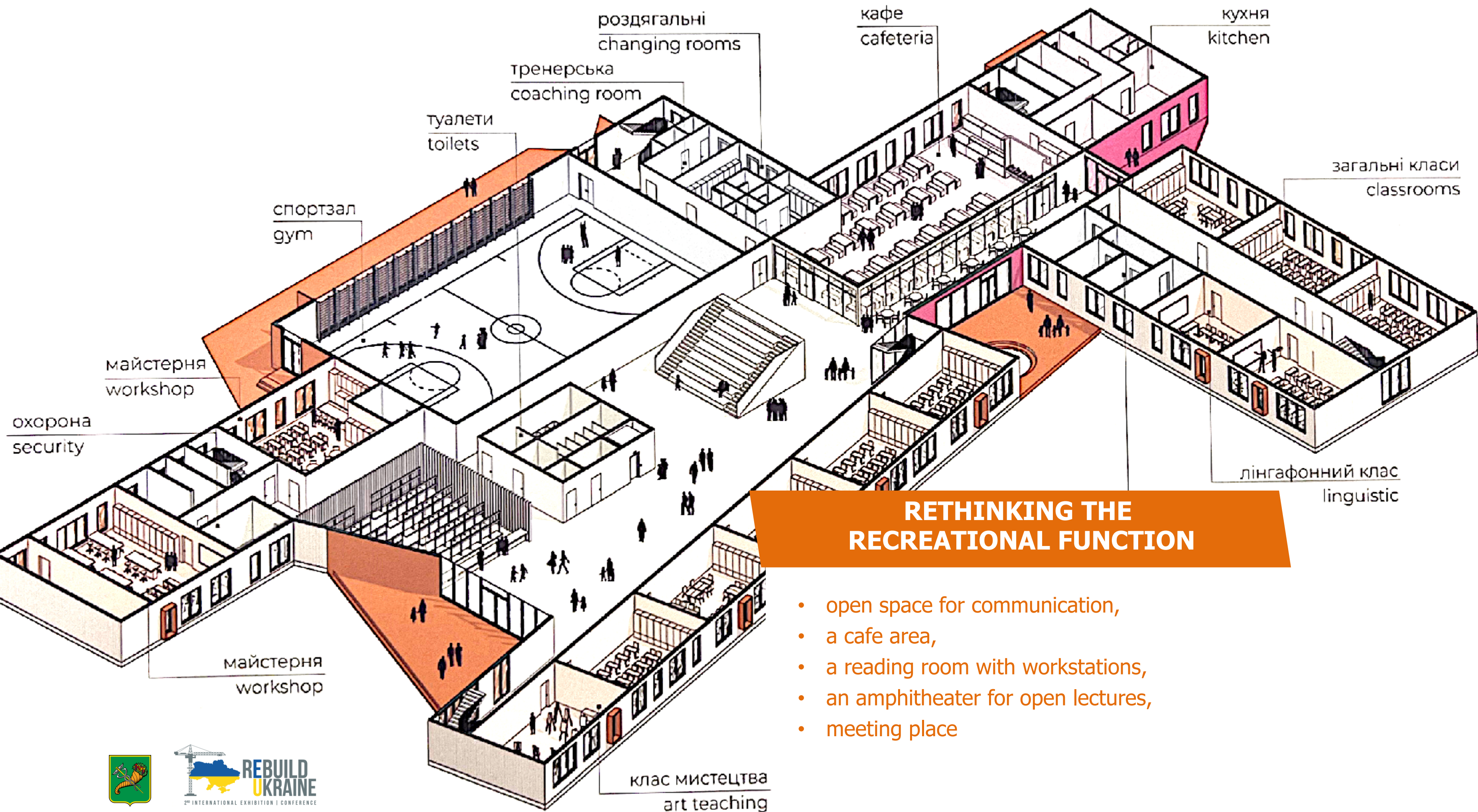
CONCEPT

**NATURAL ORIENTATION
OF THE ARCHITECTURE**

PATIOS

**BALANCED ATTITUDE
TO THE ENVIRONMENT**





роздягальні
changing rooms

кафе
cafeteria

кухня
kitchen

тренерська
coaching room

туалети
toilets

спортзал
gym

загальні класи
classrooms

майстерня
workshop

охорона
security

лінгвафонний клас
linguistic

RETHINKING THE RECREATIONAL FUNCTION

- open space for communication,
- a cafe area,
- a reading room with workstations,
- an amphitheater for open lectures,
- meeting place



клас мистецтва
art teaching



ARCHITECTURAL AND PLANNING SOLUTION

Total area:
> 8,000 sq.m.

1,000
students

→ BOMB SHELTER

→ CLASSROOMS

→ SPECIALIZED CLASSES:

- Computer science and robotics
- music and art
- labor training
- Chemistry, physics, biology with areas for experiments

→ UNIVERSAL AUDIENCES
the learning space is modeled depending on specific needs

→ MULTIFUNCTIONAL SPORTS ARENA

→ SPACIOUS DINING ROOM

→ COWORKING LIBRARY FOR STUDENTS AND TEACHERS

→ TEACHER'S OPEN-SPACE

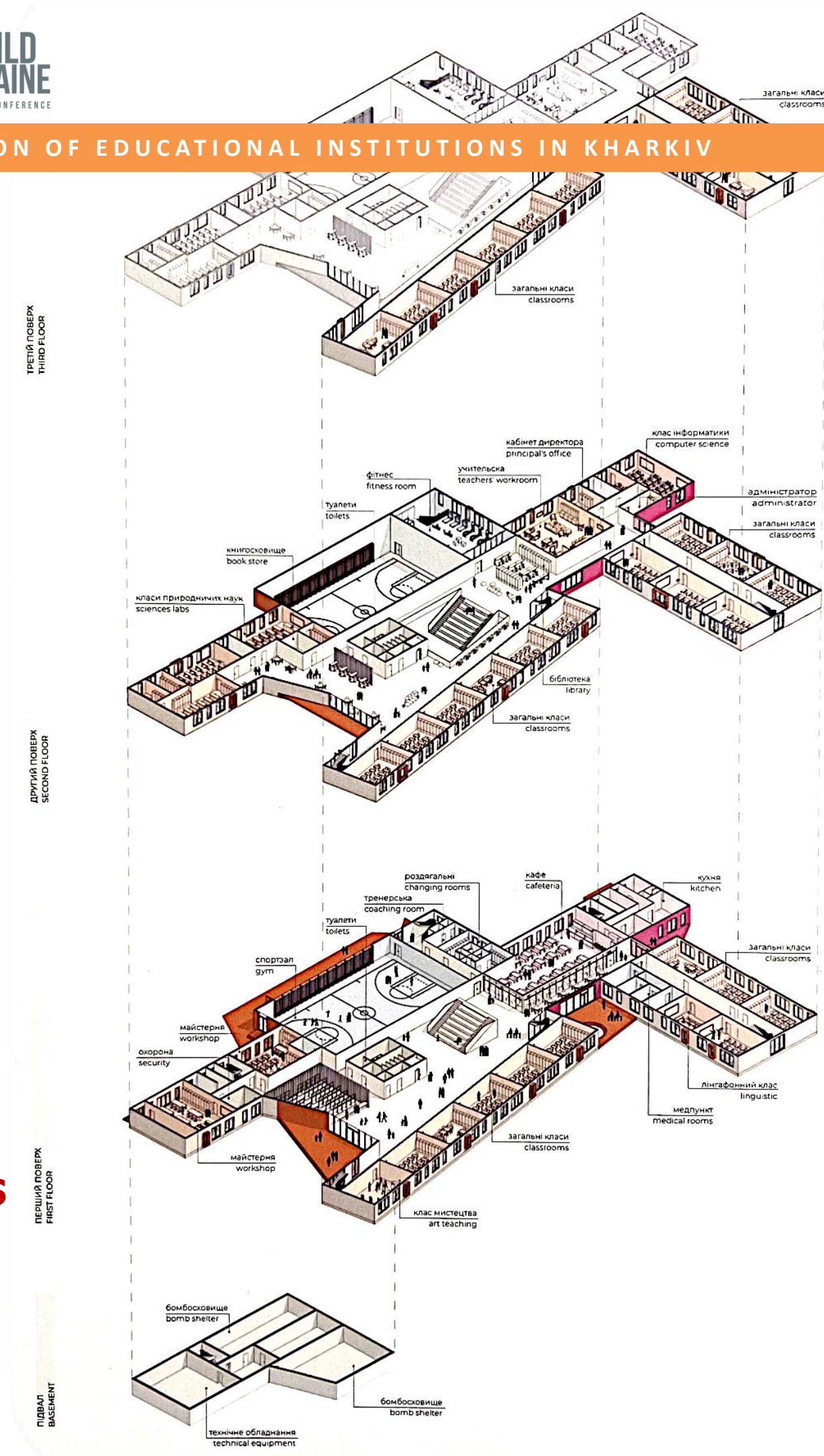
→ MEDICAL CENTER

→ ASSEMBLY HALL

→ SCHOOL THEATER

→ GYMNASTIC AND MEDIA STUDIOS

→ RECREATIONAL AREAS FOR REST AND ENTERTAINMENT





ENERGY EFFICIENCY

ACTIVE HOUSE

SUSTAINABLE ARCHITECTURE

ALTERNATIVE ENERGY SOURCES

1. Heat pump
2. Multifunctional glass
3. Solar panels
4. State-of-the-art ventilation system with built-in CO2 sensors
5. "Smart" lighting
6. Three-level water purification system.





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PROJECT COST
EUR 5 mln

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THANK YOU FOR YOUR ATTENTION!



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