

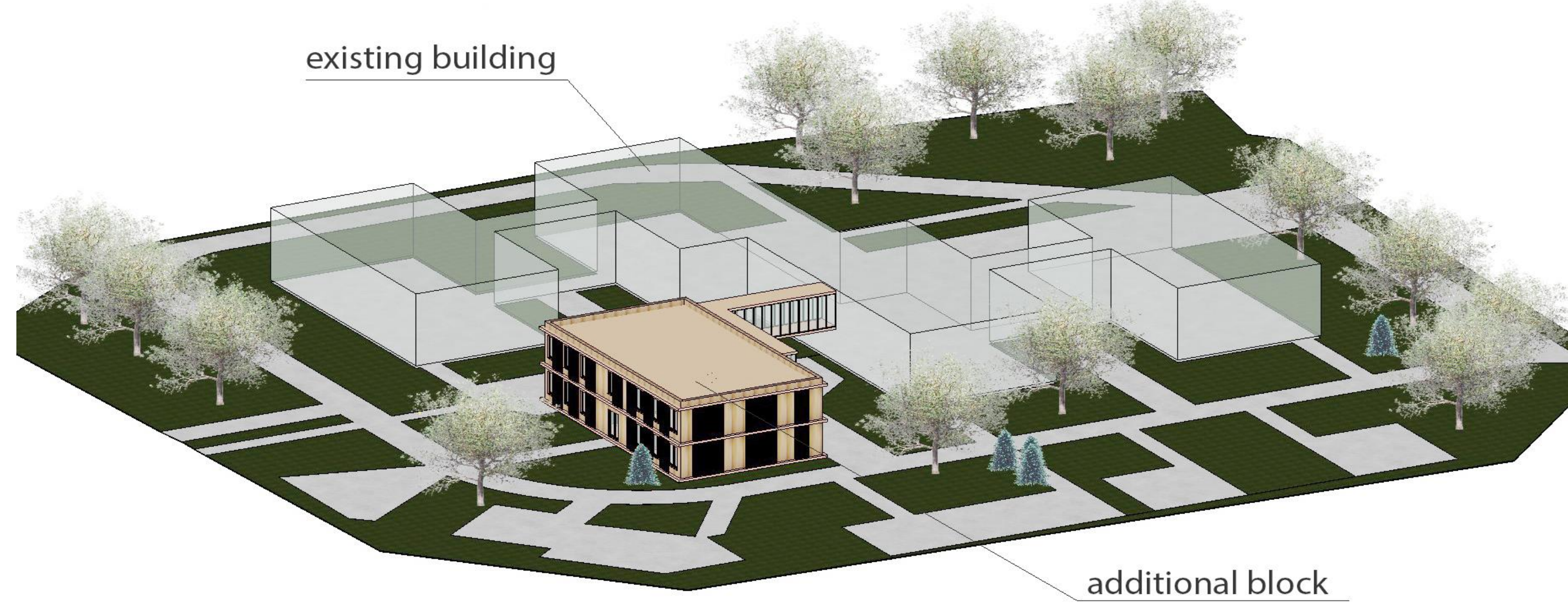
Wooden Modular Kindergarten

Lviv city



► Project in a nutshell

The Modular Wooden Kindergarten project was initiated to solve the problem of lack of places in municipal kindergartens for integration of **60** internally displaced children



► We outlined 6 main working packages

1. Design and architecture of the new KINDERGARTEN

2. Interior design of the new KINDERGARTEN

3. Benchmark of Swiss and Ukrainian wood manufacturing companies

4. New educational approaches for the extended KINDERGARTEN

5. Defining the concept to introduce energy efficiency in existing building

6. Promotion of new sustainable technologies and wooden construction

► Why this project?

- ✓ support the possibility for better integration of **110 000** internally displaced persons, **27 172** of whom are children (Data: Lviv City Council dated on 01.04.2023)
- ✓ promote sustainability and wooden construction in educational buildings
- ✓ new technologies, renewable energy, eco-friendly usage in kindergartens

► Main Stakeholders



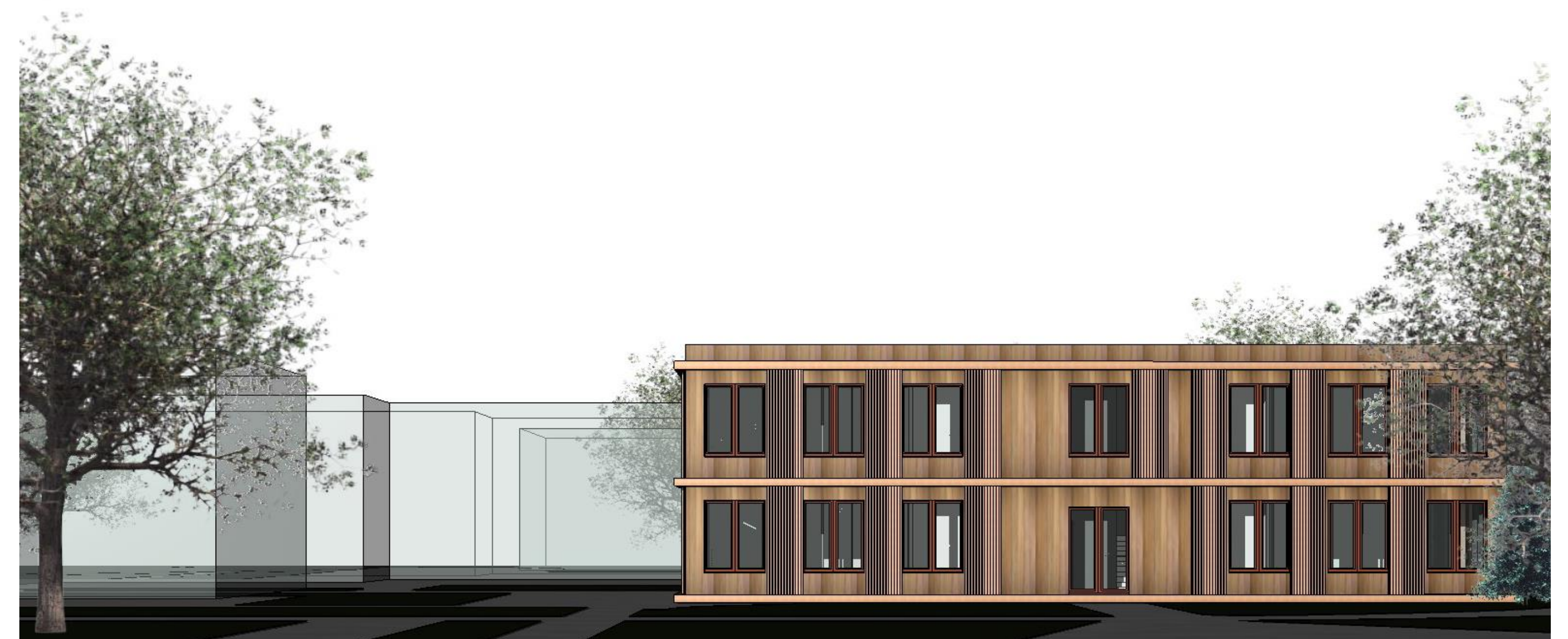
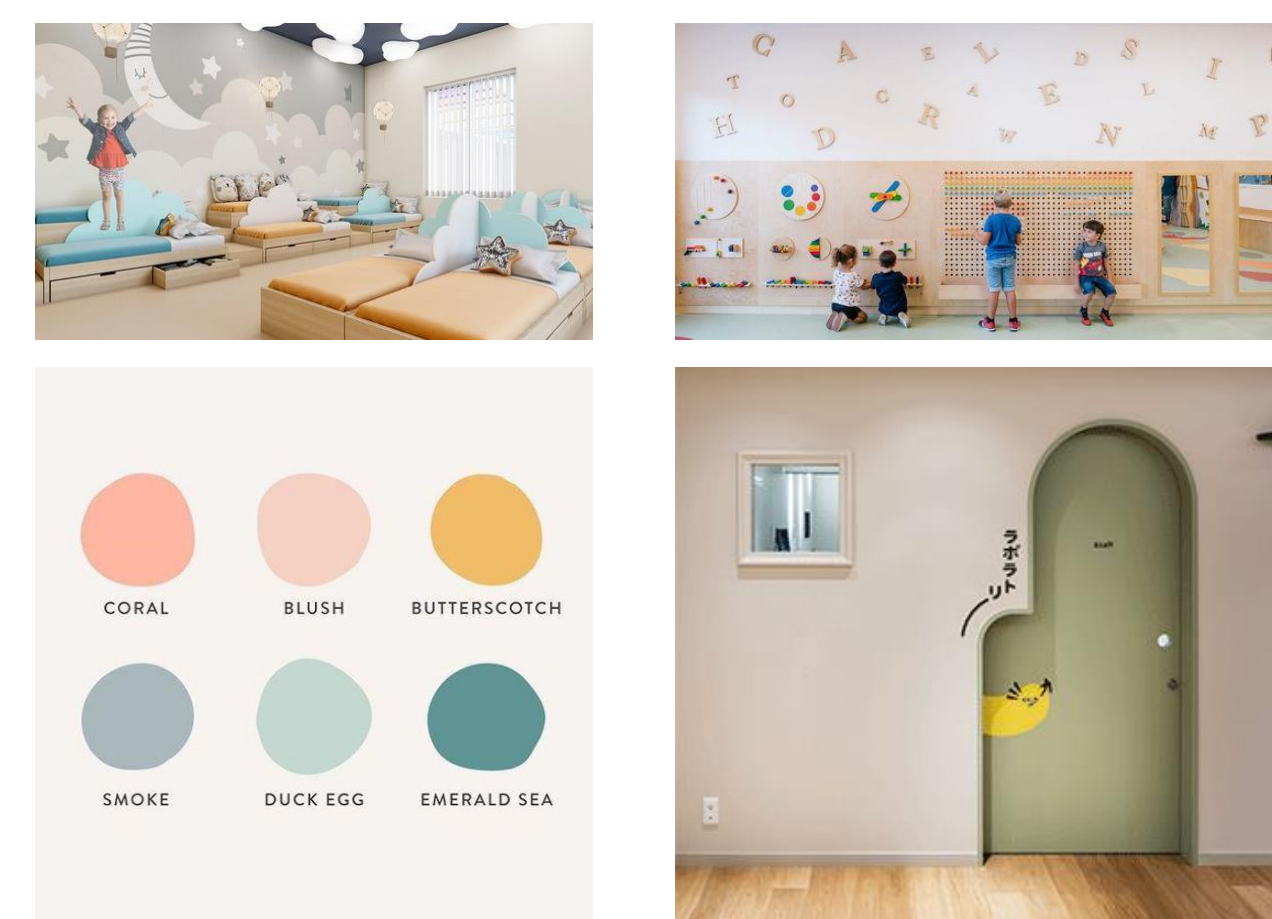
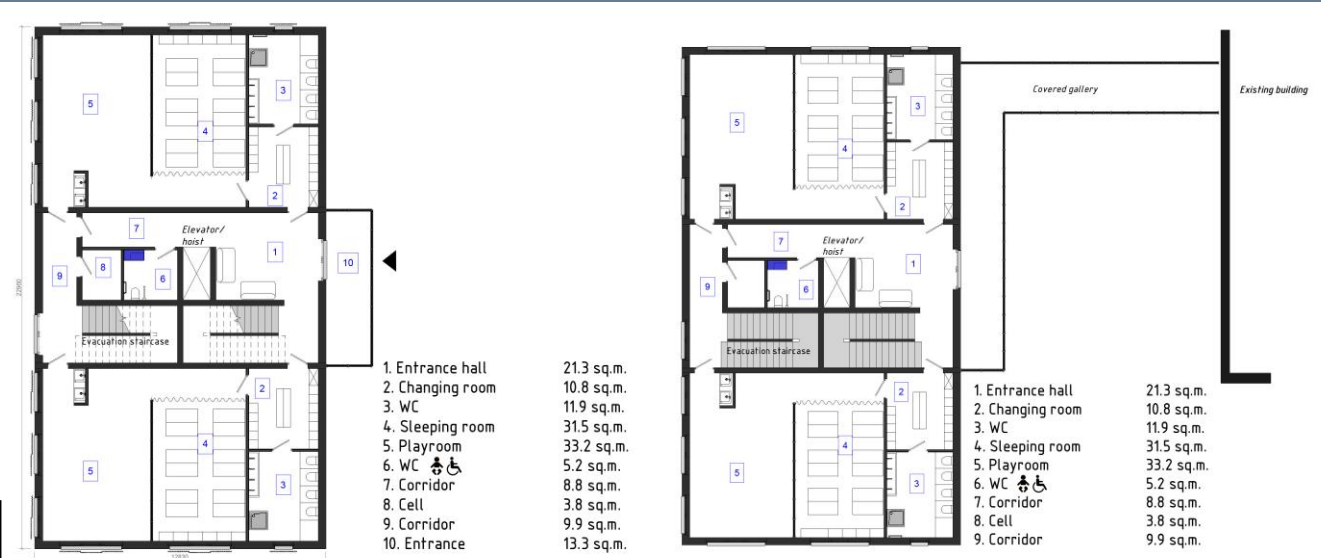
The main entrance of the existing building

► Project Objectives

- ✓ develop a concept for a modular kindergarten using Swiss approach to construction with wood as a renewable material
- ✓ scale up the project to other destroyed regions
- ✓ usage of renewable energy sources, namely solar energy
- ✓ attract sustainable technologies such as energy storage
- ✓ include ecological and future recycled materials in interior equipment: timber board, Epicea 3 layer board, plywood, cork coating, Novatop acoustic panels, Valchromat finish panels, wood fiber insulation
- ✓ development of effective interior zoning using furniture-transformers, soft border pillows
- ✓ implement a barrier-free environment
- ✓ introduction of a Swiss approach to the educational process in Ukraine, namely waste disposal education
- ✓ application of innovative methods of psychological assistance to mental health of children

► Reached Milestones

- ✓ space-planning solutions for the new extended building designed
- ✓ modular technology from Switzerland used
- ✓ BIM model developed
- ✓ manufacturers of modular houses in Switzerland and Ukraine compared
- ✓ energy efficiency indicators of the existing building calculated
- ✓ interior concept developed
- ✓ finishing materials and color scheme for mental health selected



Visualization of the western façade of the additional block

More about
CAS Rebuild
Ukraine



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