

Міністерство культури та стратегічних комунікацій України
Харківська Державна Академія Дизайну та Мистецтв.
Факультет «ДИЗАЙН СЕРЕДОВИЩА»
Кафедра «Архітектури»

Екопоселення в умовах зміни клімату в районі Сямен (Xiamen), Китай

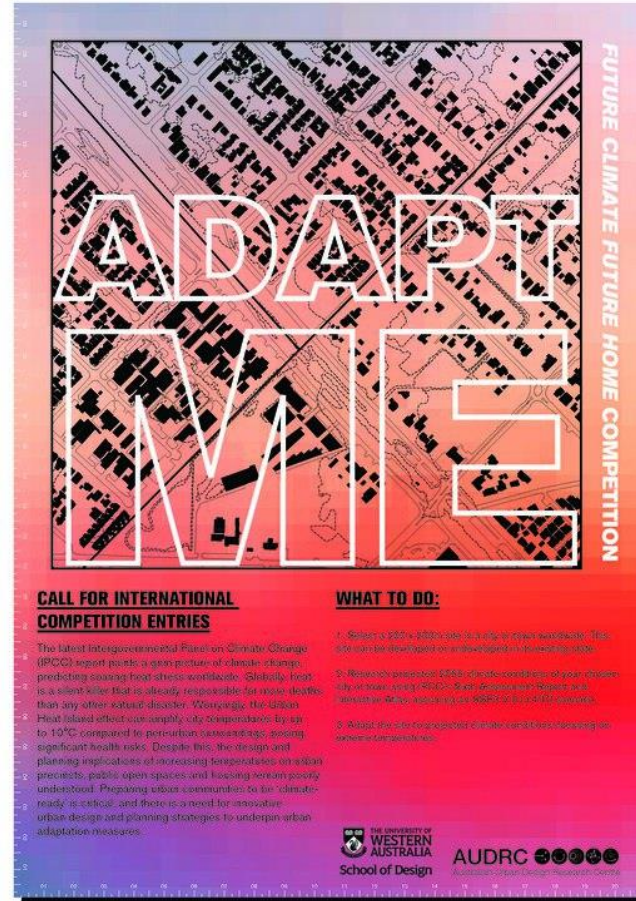
Виконав: студент гр.АПС-21
Го ХАНЬБІНЬ

Керівник: ст викладач
Олександр КОЛЕСНИКОВ



Конкурс
Дипломний проект було
розроблено на основі завдання
міжнародного архітектурного
конкурсу «Майбутній клімат
майбутнього дому». Конкурс
було оголошено Австралійським
центром досліджень міського
дизайну та Школою дизайну
Університету Західної Австралії.
Три умови:

1. Ділянка 200x200м
2. Вивчити зміну клімату до 2099
3. Конкурсний проект повинен
відповісти на кліматичні виклики



ADAPT ME
FUTURE CLIMATE FUTURE HOME COMPETITION

CALL FOR INTERNATIONAL COMPETITION ENTRIES

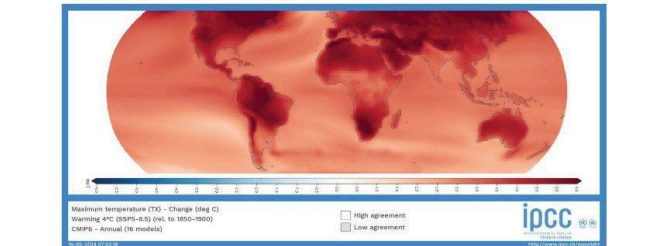
The latest Intergovernmental Panel on Climate Change (IPCC) report paints a grim picture of climate change, predicting soaring heat stress worldwide. Globally, heat is a silent killer that is already responsible for more deaths than any other natural disaster. Worsening the urban heat island effect, our rapidly city temperatures by up to 10°C compared to previous scenarios, posing significant health risks. Despite this, the design and planning implications of increasing temperatures on urban precincts, public open spaces and housing remain poorly understood. Preparing urban communities to be 'climate-ready' is critical, and there is a need for innovative urban design and planning strategies to underpin urban adaptation measures.

WHAT TO DO:

1. Select a 200m x 200m site in your own backyard. This site can be developed on undeveloped or brownfield site.
2. Research and select climate conditions of your chosen city or town (1950-1980) - 19.5m x 19.5m site. Report and describe the location in 1950-1980 and 2099 scenario.
3. Adapt the site to respond to climate conditions in 2099 in an SSP3-7.0 warming scenario.

THE UNIVERSITY OF WESTERN AUSTRALIA School of Design

AUDRC Australian Urban Design Research Centre



WHAT TO SUBMIT:

Produce three A2 panels (portrait orientation) that include:

1. An urban master plan of your site (with lat. long details) set in 2099, adapted to the SSP3-7.0 warming scenario.
2. A plan and section or 3d view of a detailed area comprising a typical open space, street or built form demonstrating adaptation to the SSP3-7.0 warming scenario.
3. Illustrations and up to 300 words of text depicting daily life in the neighbourhood in 2099 in an SSP3-7.0 warming scenario.

WHY A DESIGN COMPETITION?

Commentary on climate change is often alarmist and can employ inflammatory language. Words like 'catastrophe', 'threat' and 'urgency' are widely used. The problem is that such commentary can lead to denial, paralysis, apathy, or even perverse reactive behaviour.

At the same time, a major blockage to transformational change is a lack of urban design vision that can capture the public imagination for more sustainable and climate-adapted futures. This visionary dimension is critical because people are unlikely to discard a flawed paradigm until a more alluring model can be found.

Urban design should play a significant role in exploring what this model could be. For example, how should climate change-adapted urban precincts look, feel, and perform across a broad swathe of climate regions in the near and distant future? How do we move beyond pragmatic adaptation to climate change? Indeed, how could climate change-adaptation be a catalyst for creating diverse, dense and delightful neighbourhoods? Moreover, how can climate adaptation address socioeconomic inequities compounded by climate change?

The competition aims to engage current experts and the next generation of designers and planners with climate-sensitive urban design techniques and elicit innovative climate-sensitive urban design solutions.

WHO CAN ENTER?

This international ideas competition is open to tertiary students and graduates from any climate region worldwide. We expect most entrants will be urban planners, urban designers, architects, and landscape architects, although entrants from other relevant professional backgrounds are welcomed. Entrants are encouraged to work in multidisciplinary teams.

WHAT IS THE PRIZE?

The competition will have a total prize pool of \$15,000 (AUD). This prize money will be split between the tertiary student and graduate entries.

WHO ARE THE JUDGES?

- Dr Julian Bolleter (Urban Design): Director of the Australian Urban Design Research Centre, the University of Western Australia (Chair)
- Dr Silvia Tavares (Urban Planning): Founder and Co-Lead of the Bioclimatic and Sociotechnical Cities Lab at the University of the Sunshine Coast
- Emerita Professor Billie Giles-Corti (Public Health): Distinguished Professor, VC Professorial Research Fellow and Director of the Healthy Liveable Cities Lab at RMIT
- Professor Maria Ignatieva (Landscape Architecture): Professor of Landscape Architecture at the School of Design at the University of Western Australia and President of the Urban Biodiversity and Design International Network
- Andrew Lileymen (Architecture): Director of ARM Architecture
- Dr Robert Cameron (Smart Cities): Associate Lecturer at the Australian Urban Design Research Centre, the University of Western Australia.

HOW WILL THE JUDGES ASSESS THE ENTRIES?

The judges will assess the entries according to their working knowledge of established climate-sensitive urban design strategies and their development of innovative approaches. Rather than a purely technical exercise, the judges will recognise entries demonstrating creative engagement with increasing temperatures as a springboard to designing delightful, socio-ecologically enriching, innovative urban proposals.

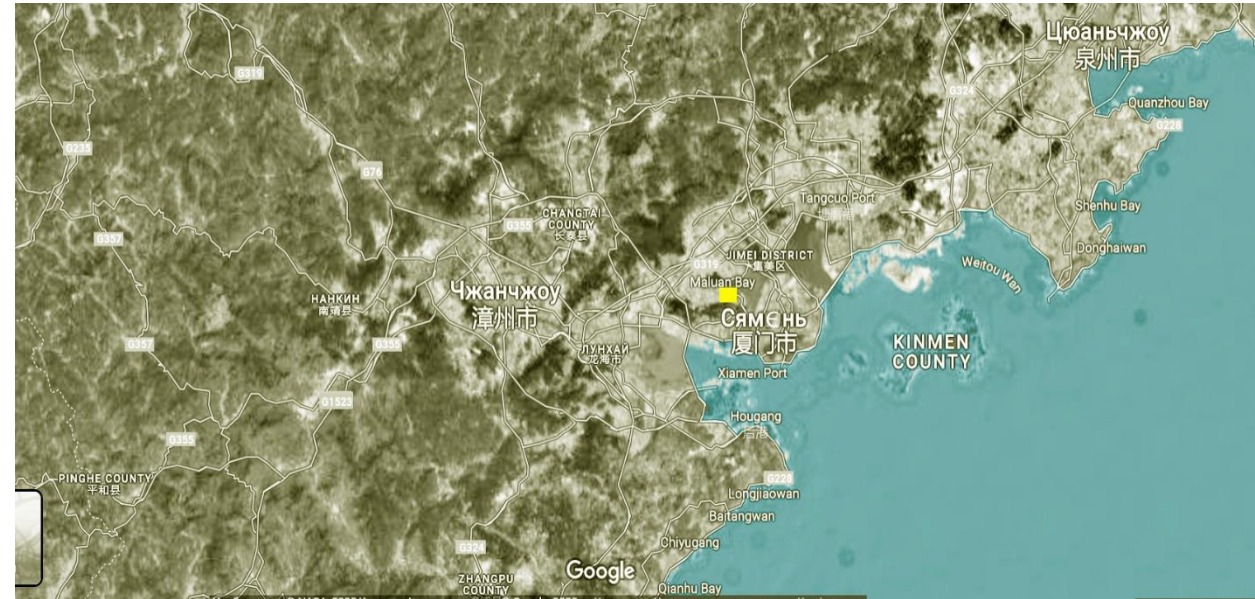
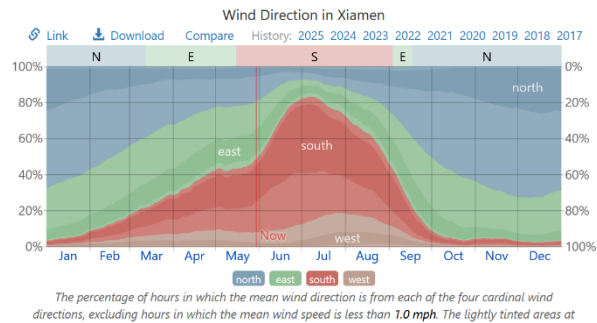
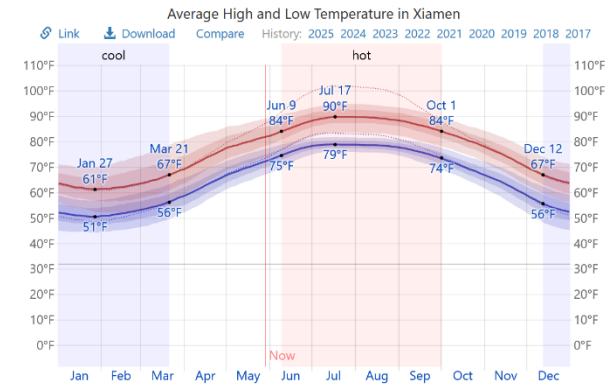
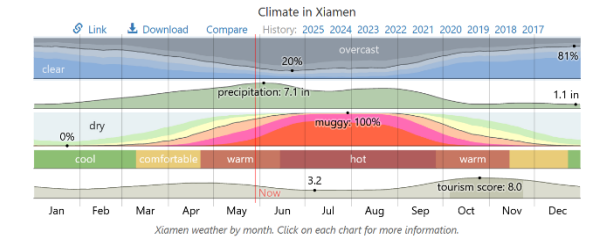
WHEN WILL THE COMPETITION CLOSE?

The competition will close at 11:59 pm on the 30th of November 2025. Submit your entry here: https://www.surveymonkey.com/r/FCFH_comp_submissions. Entry is free of charge.

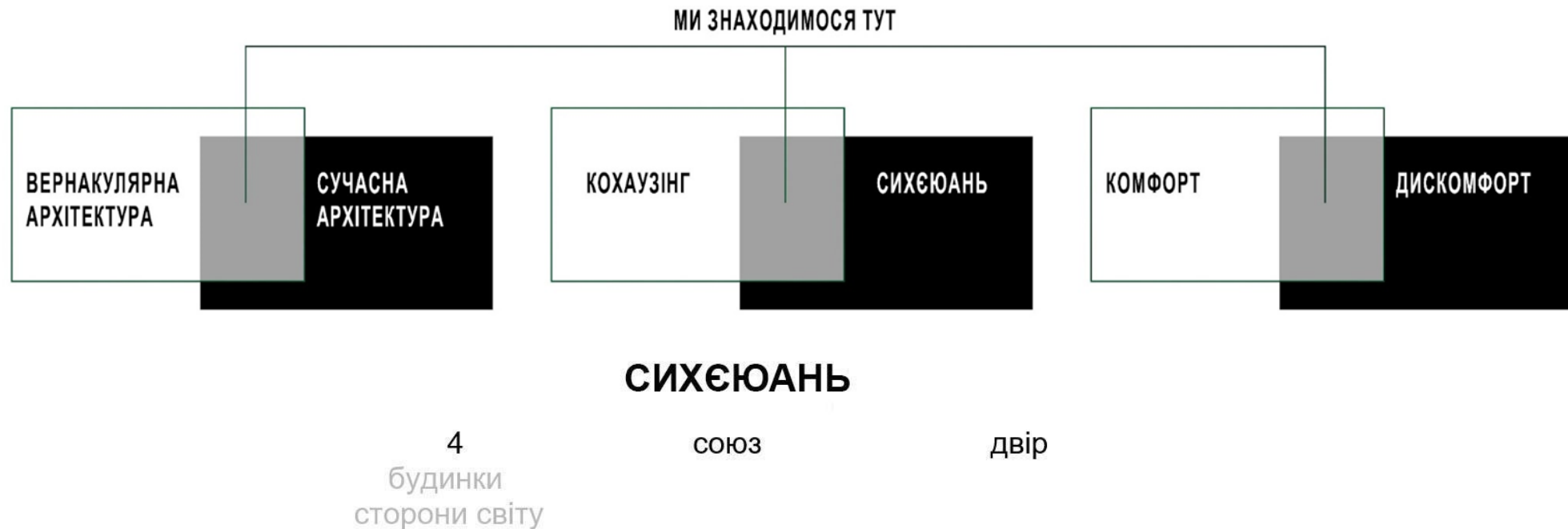
RECOMMENDED READINGS + LECTURES

- Lenzholzer, S. (2018). Weather in the City: How Design Shapes the Urban Climate. Rotterdam: nai010.
- Henrique, K. P., & Tschakert, P. (2022). Everyday limits to adaptation. Oxford Open Climate Change.
- IPCC. (2022). IPCC Working Group II Sixth Assessment Report. Retrieved from <https://www.ipcc.ch/report/ar6/wg2/>
- IPCC. (2021). Climate Change 2021: The physical science basis: summary for policymakers. Retrieved from <https://www.ipcc.ch/report/ar6/wg1/>
- An introduction to Climate Sensitive Urban Design https://youtu.be/EotAA4t_V14?si=80XWwN2umcJUM

місто Сямень (Xiamen) Дуже жарко, дуже волого, зона комфорта обмежена 2 місяцями



Ідея цього проекту – об'єднання вернакулярної та сучасної архітектури, європейського та кітайського колективного житла (кохаузинг та сихеюань), комфорту та дискомфорту



四合院

200x200

три квадрата 200x200 м діляться ще
кожен на 16 квадратів з вільною
програмою заповнення їх різними
змістами. Головний елемент –
двохповерховий будинок 43х43 м



Діаграми

ШЛЯХИ



ШЛЯХИ



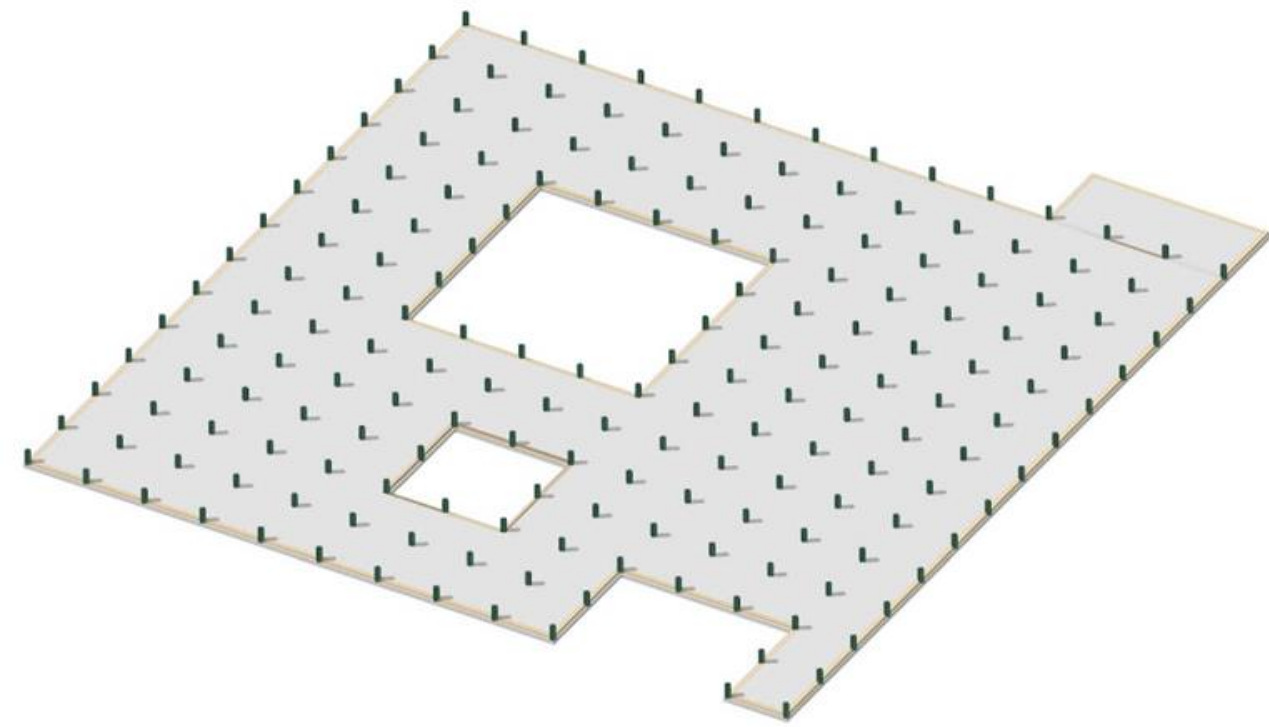
ДОМ



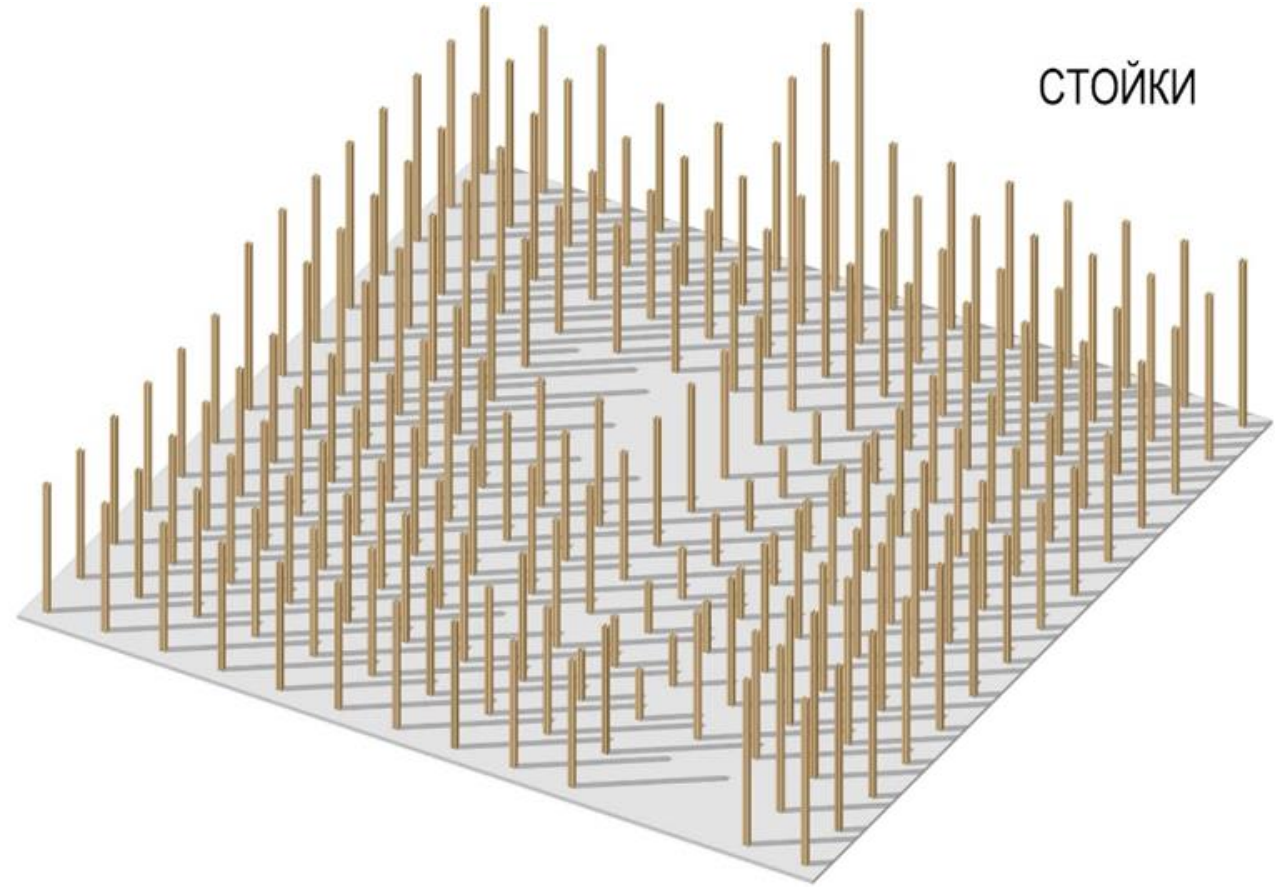
Компьютер допомагає змодувати процес будівництва

1 крок

ОСНОВА:

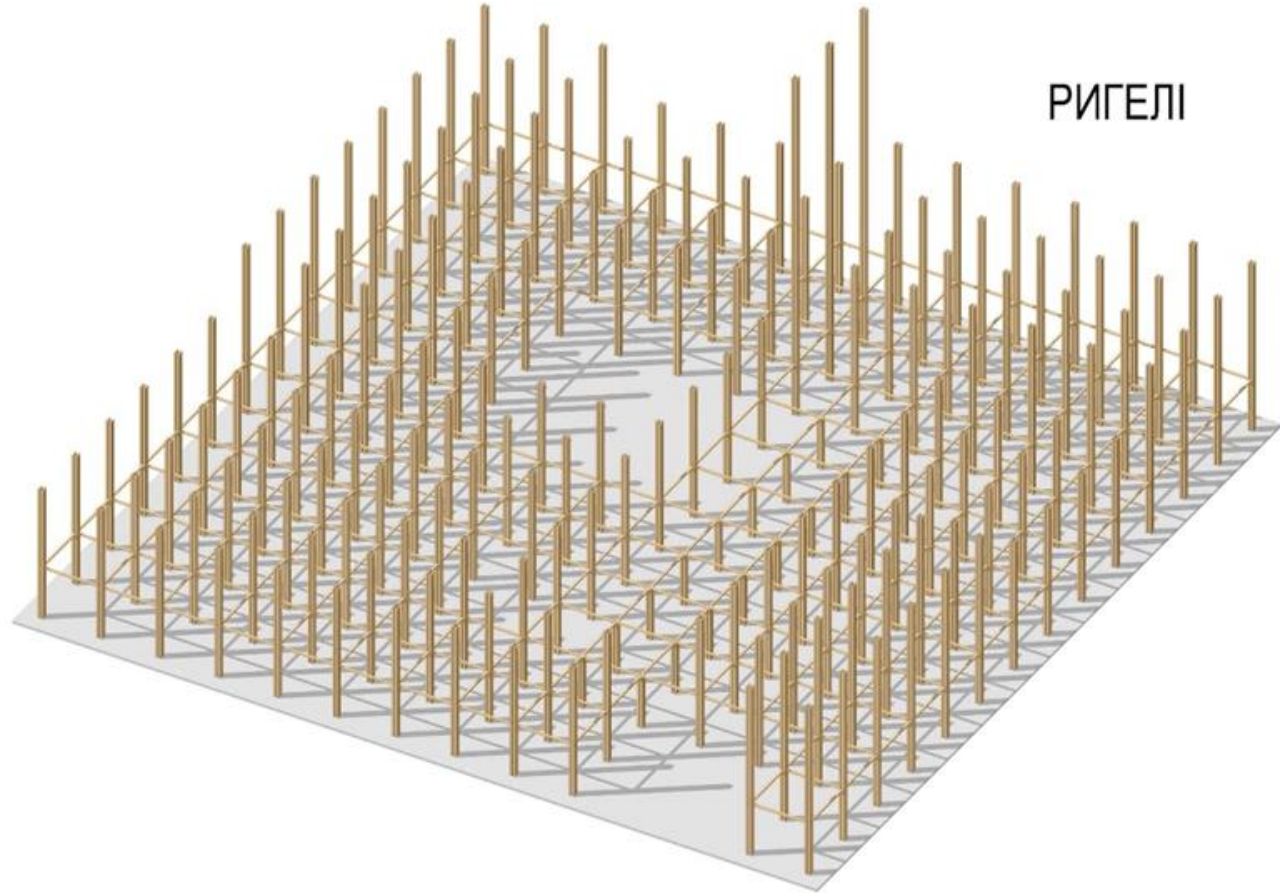


СТОЙКИ

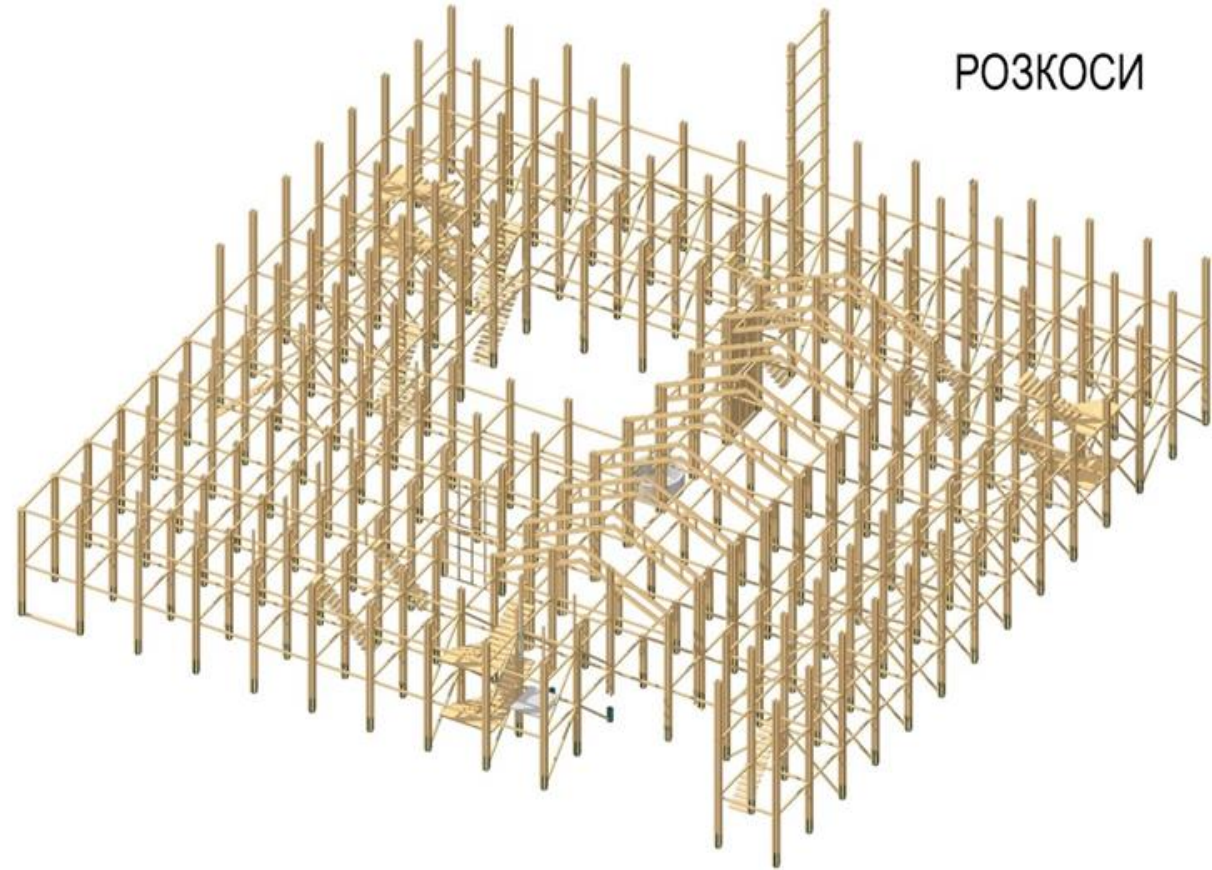


2 крок

РИГЕЛІ

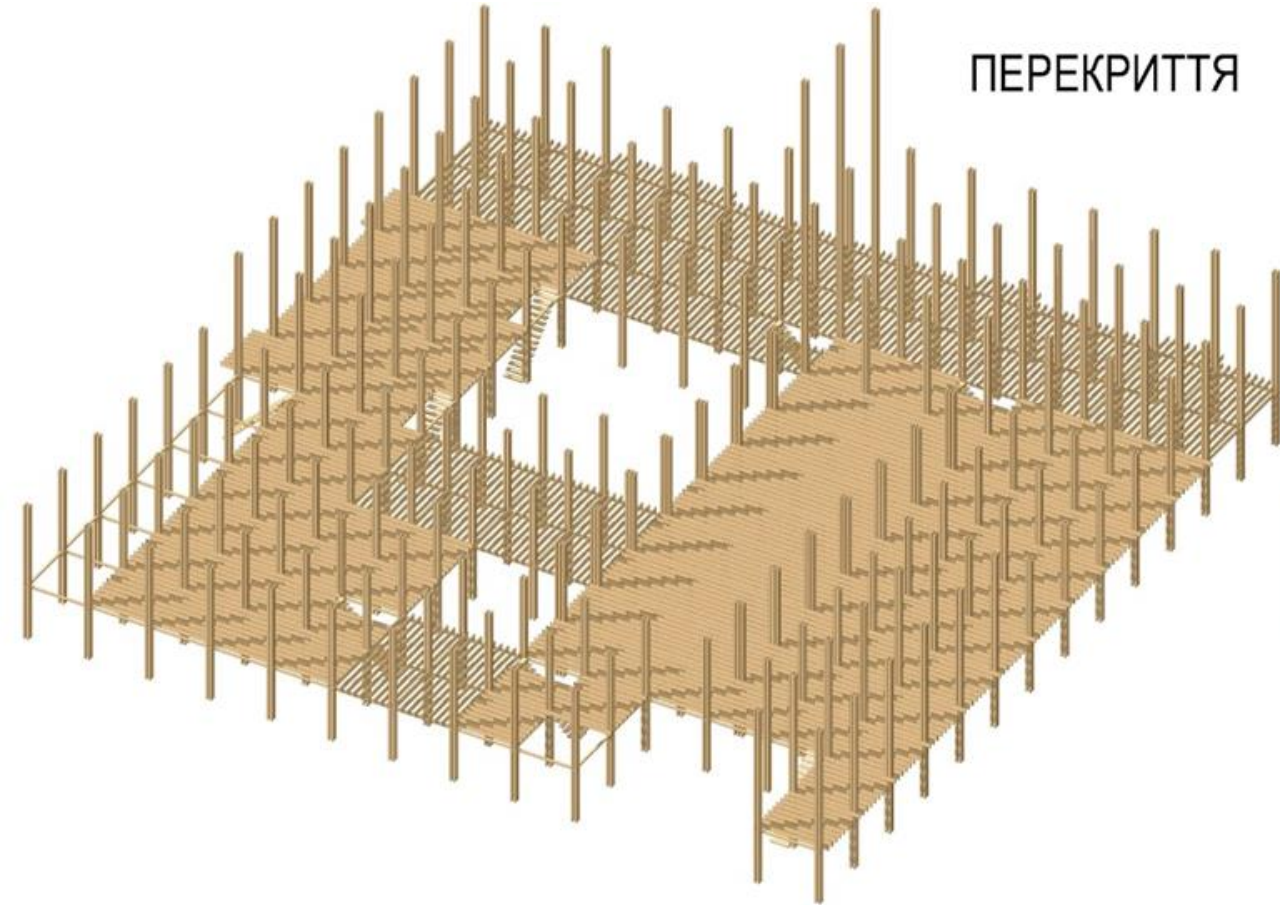


РОЗКОСИ

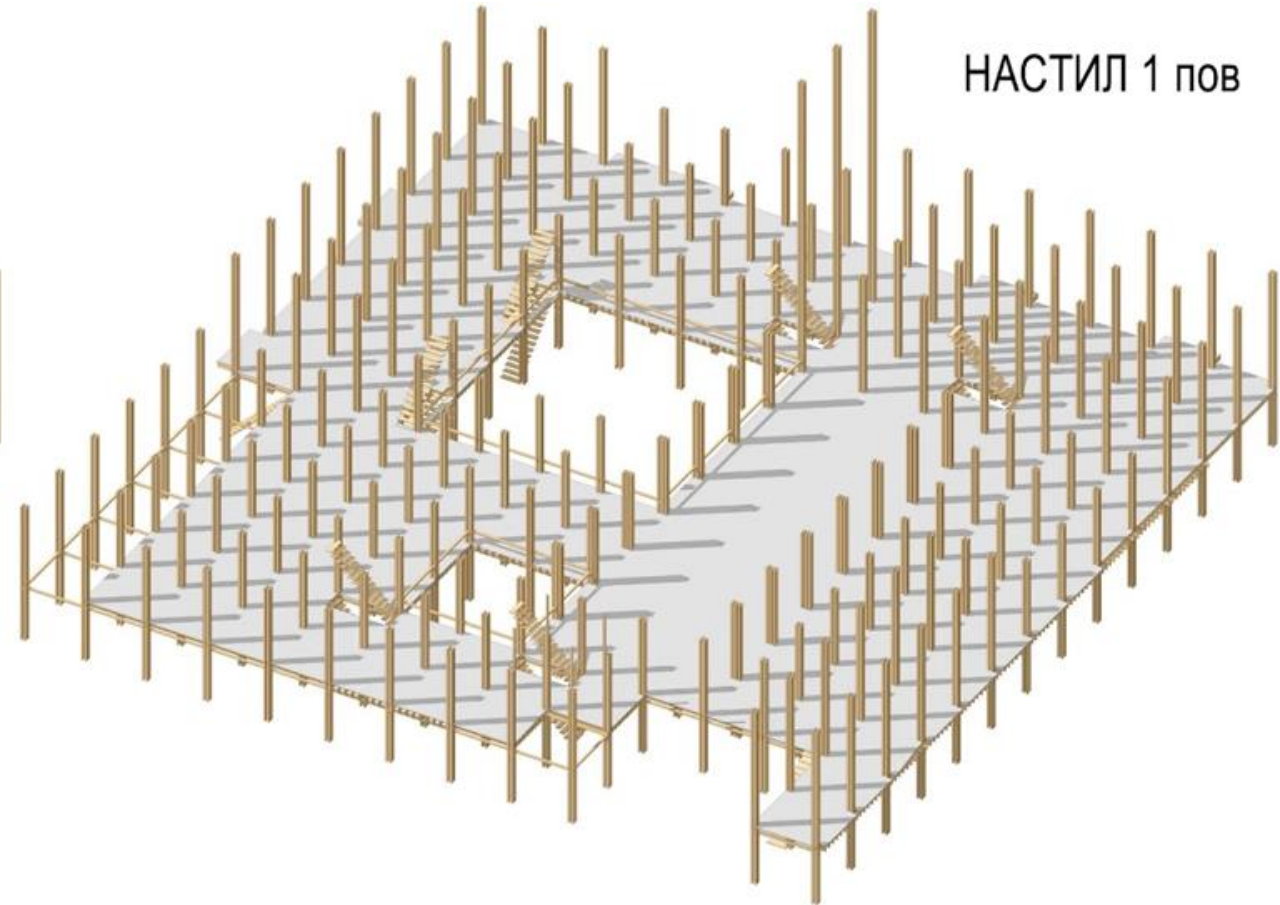


3 крок

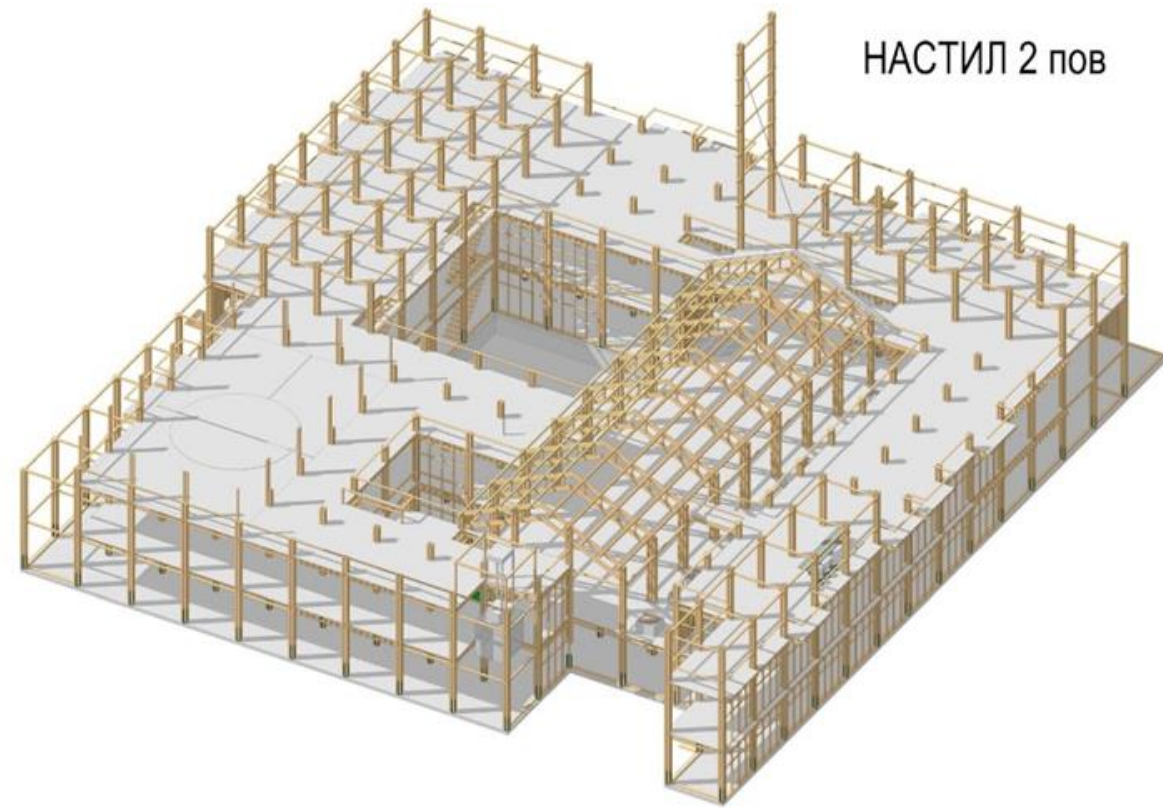
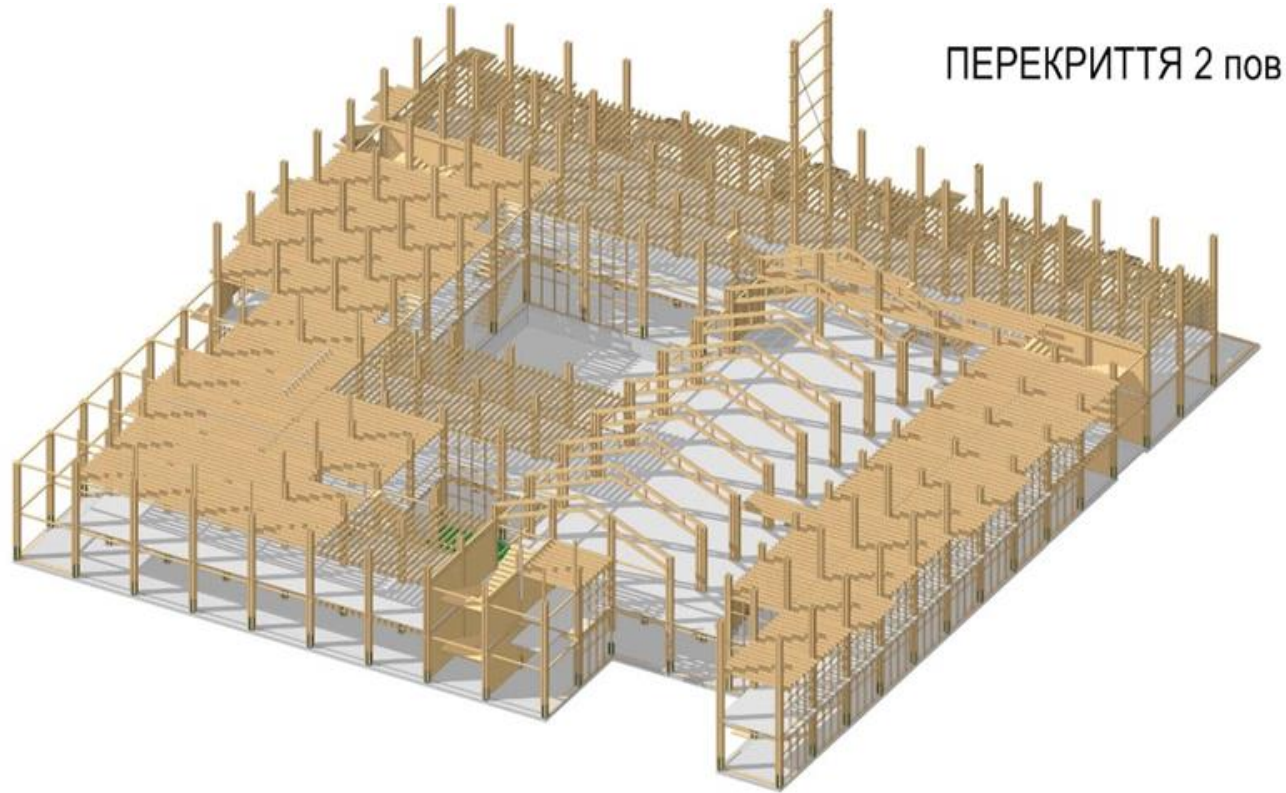
ПЕРЕКРИТТЯ



НАСТИЛ 1 пов



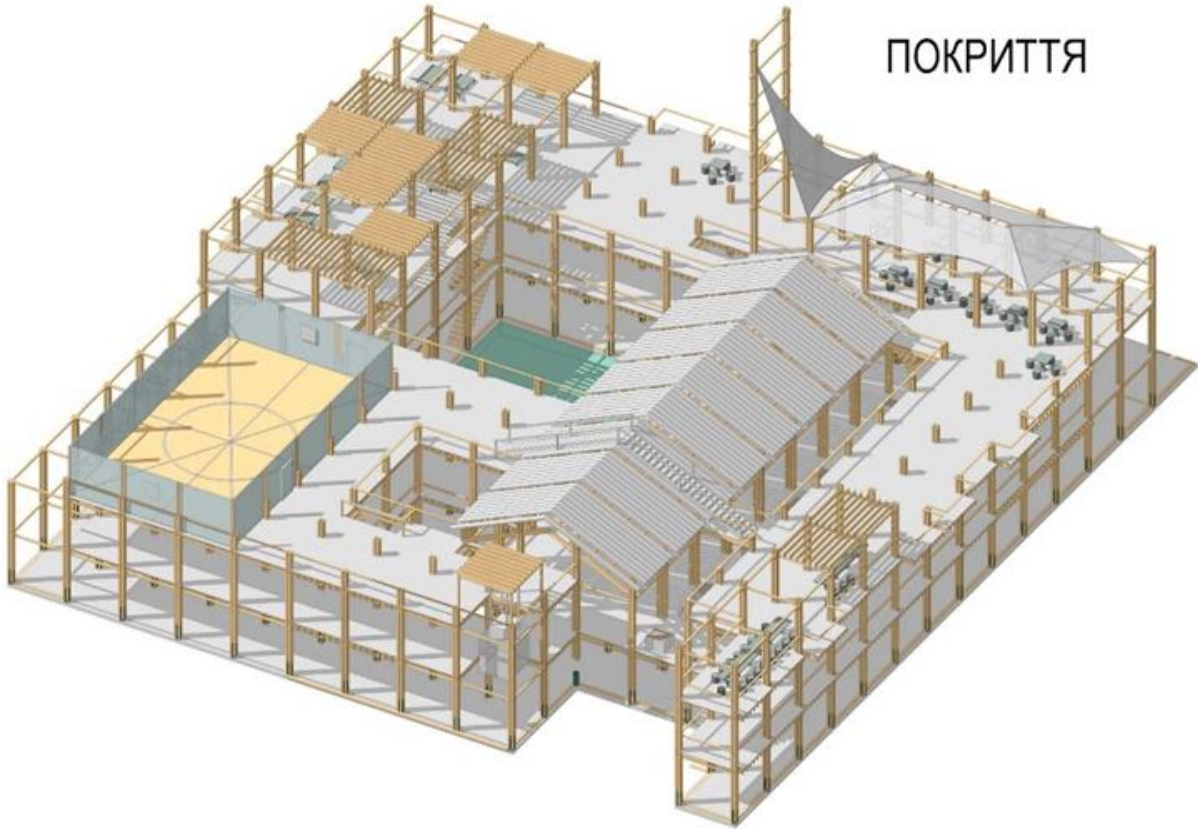
4 крок



5 крок

ПОКРИТТЯ

СТІНИ

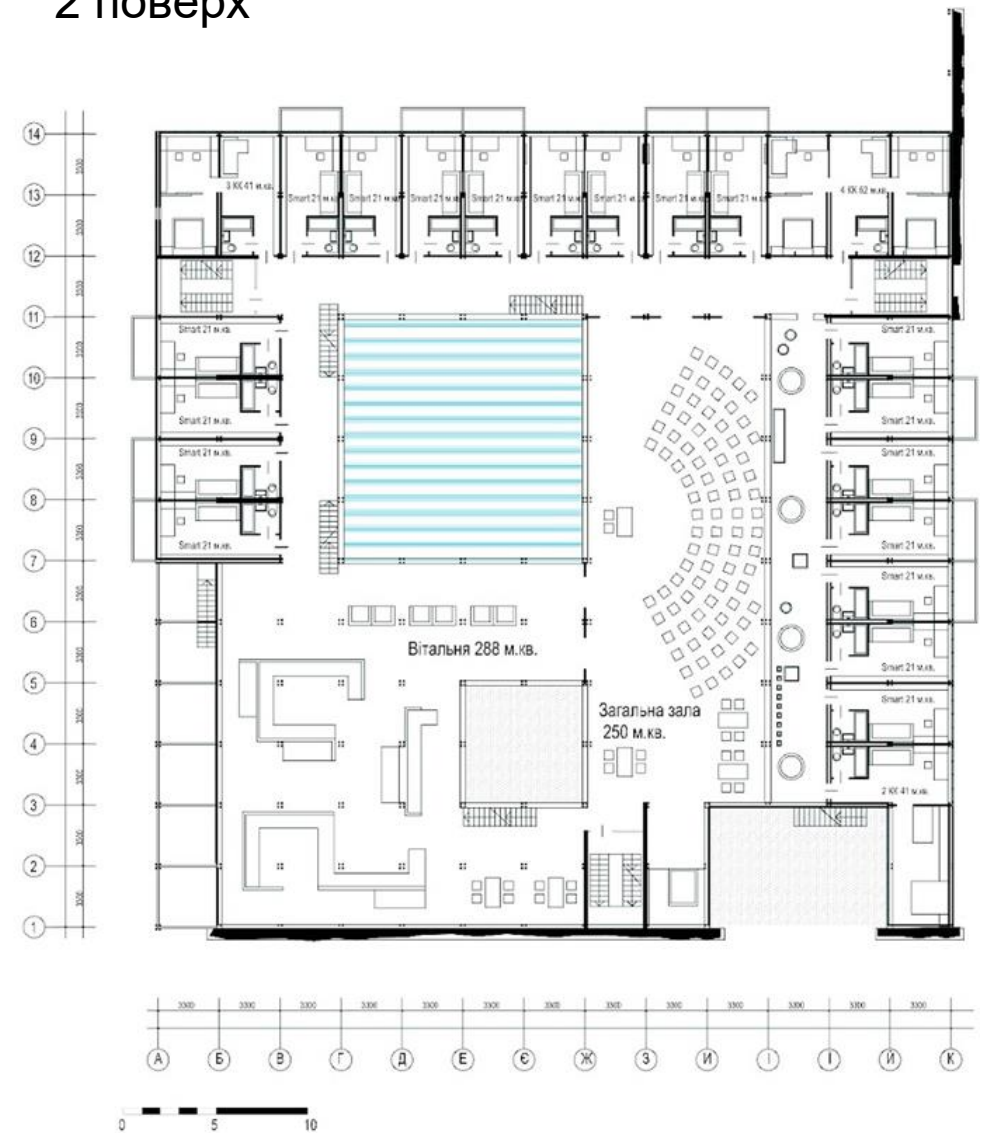


соціальна основа— велика родина (75 мешканців)

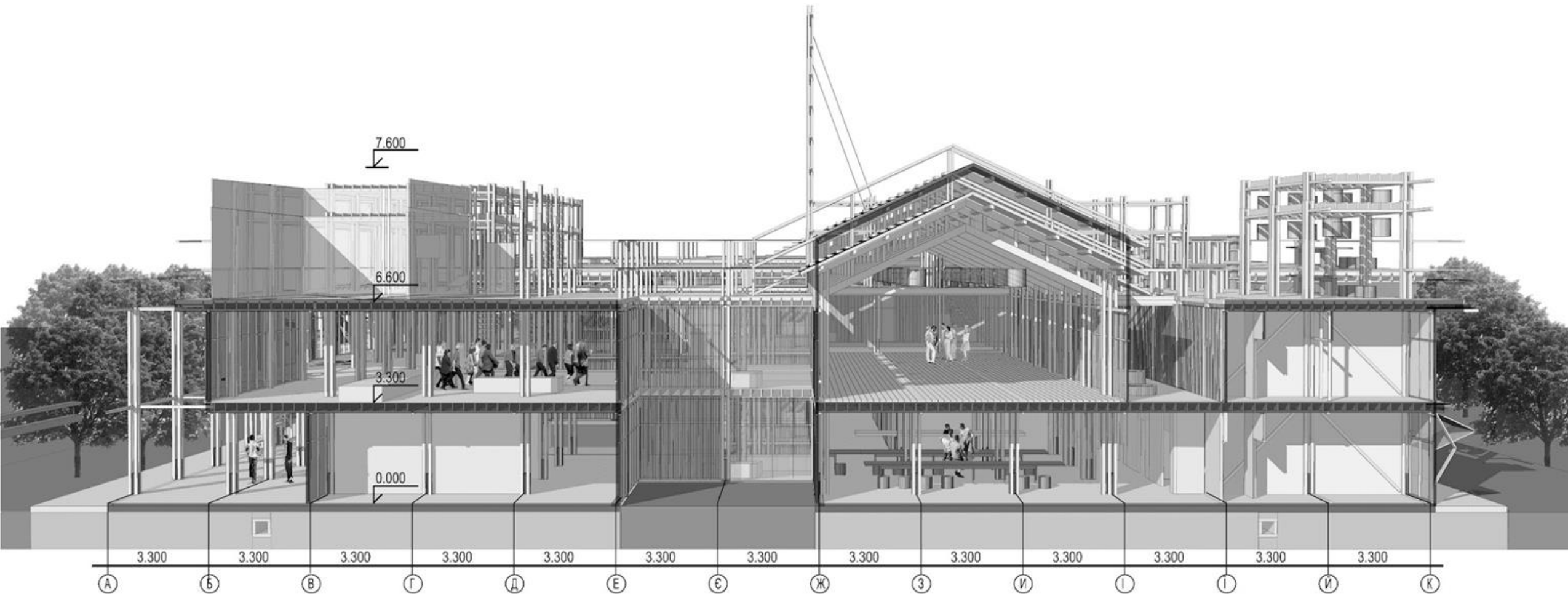
1 поверх



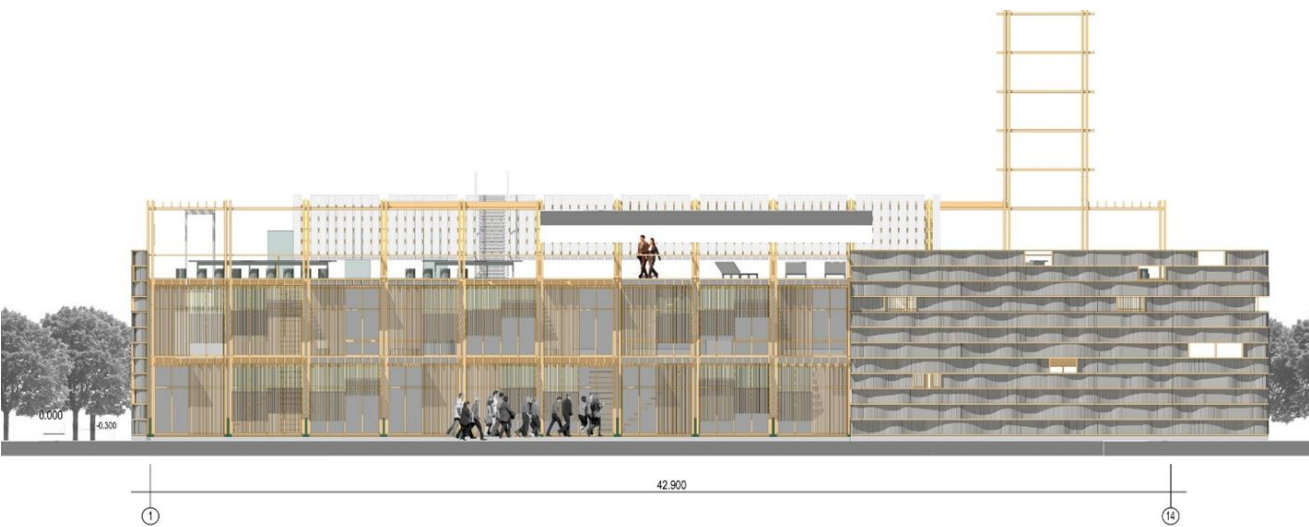
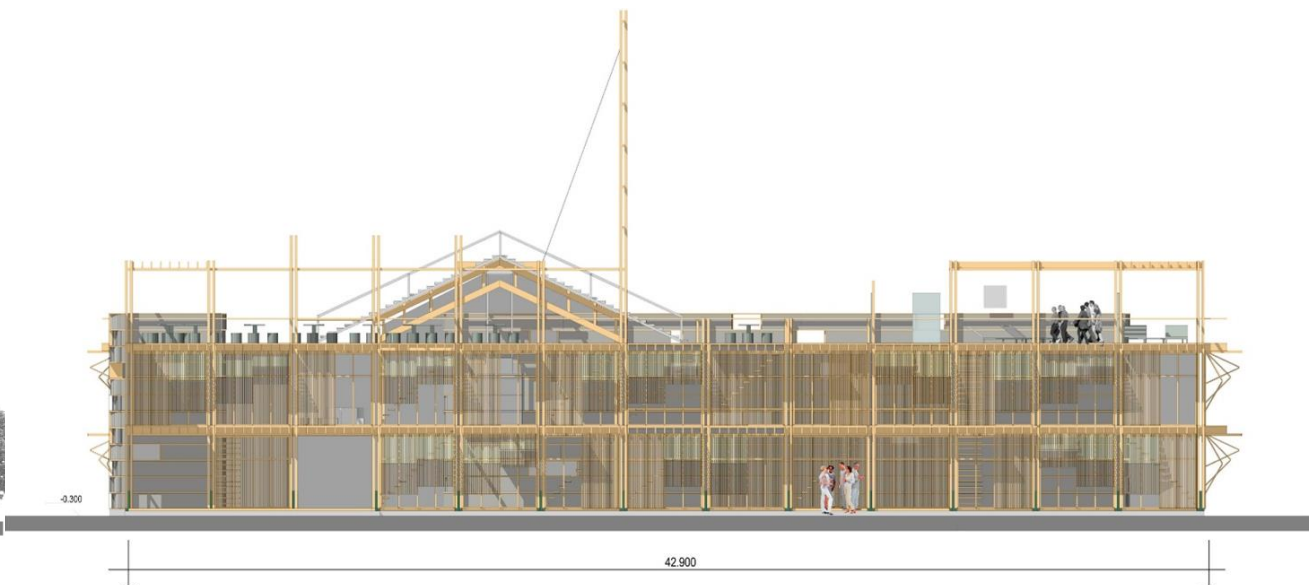
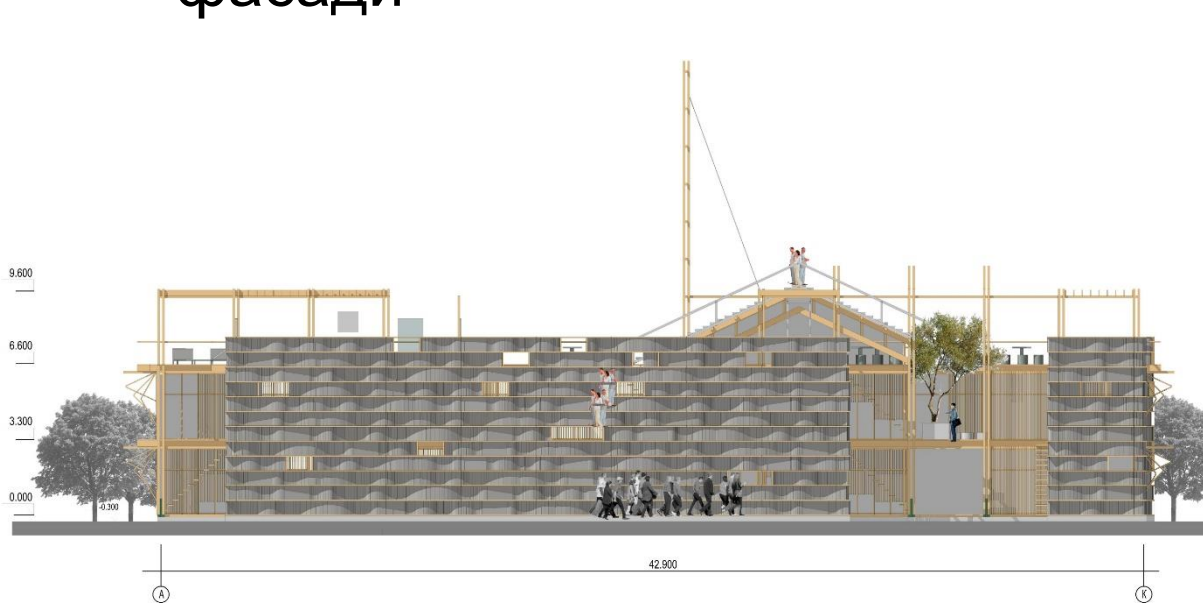
2 поверх



Внутрішні двори та рухлива багатошарова зовнішня стіна дає можливість відповідати на вимоги клімату без складної інженерії



фасади



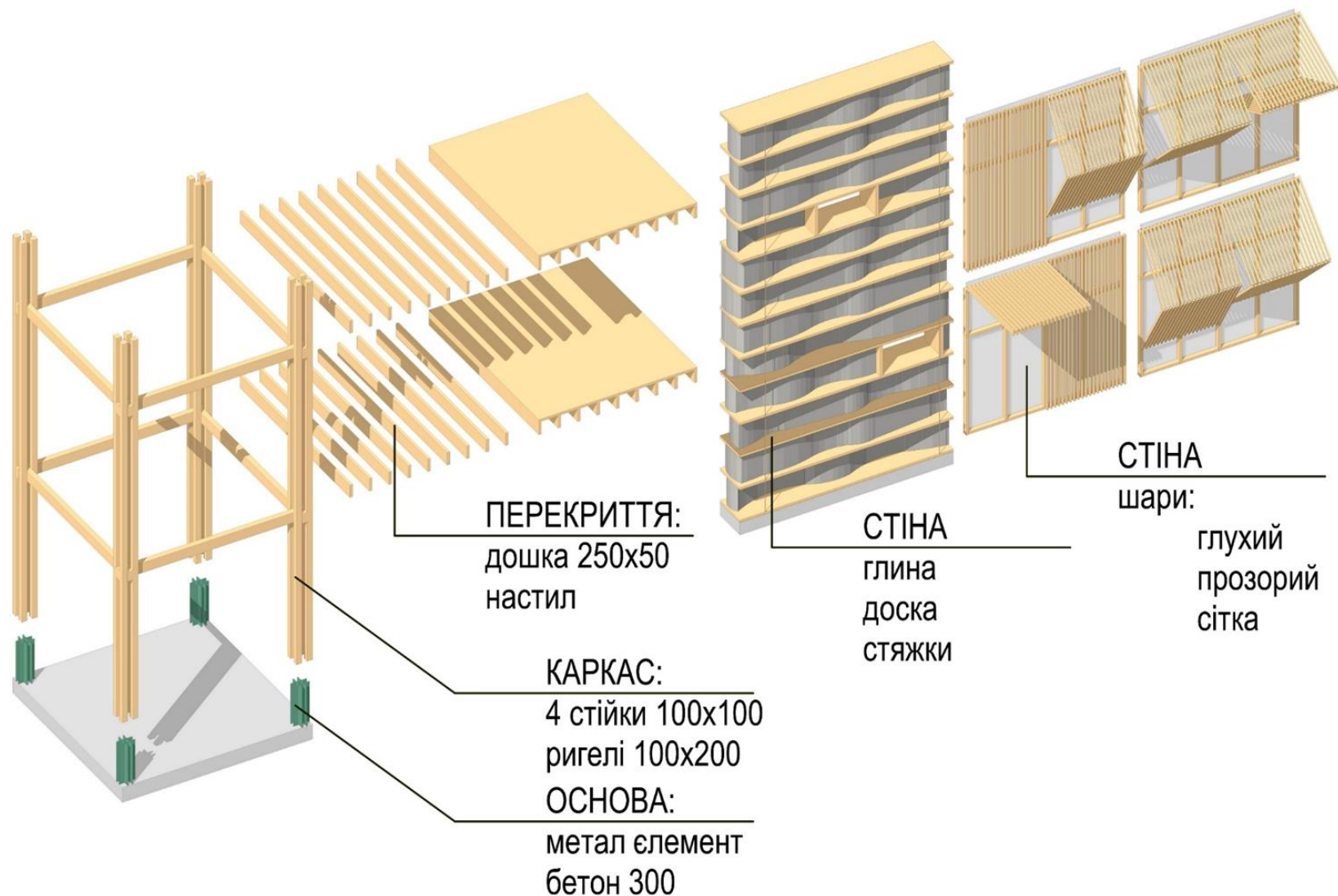
ВИДИ



ВИДИ



Екологічність, сталість та взаємодія з кліматом відбувається не за рахунок складних інженерних рішень, а при використанні місцевих матеріалів, випробуваних структур, способу життя та культурних традицій



Дякую за увагу

