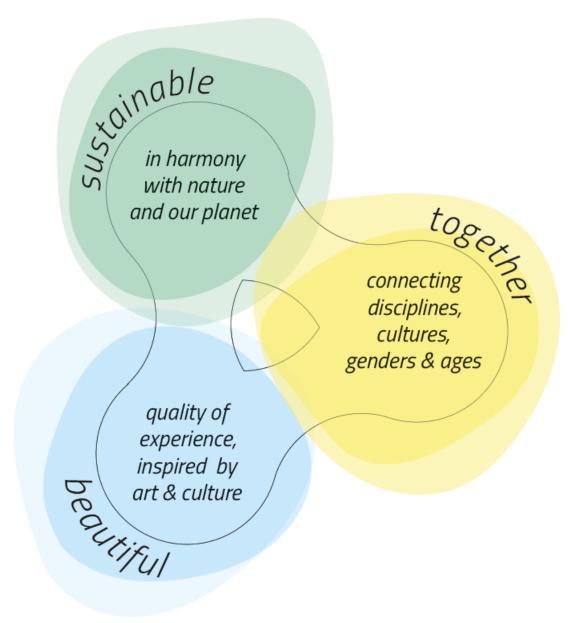
NEW EUROPEAN BAUHAUS Capacity-building programme for Ukraine

Ukraine Green Recovery Conference 28 November – 1 December, Vilnius, Lithuania

Vera Winthagen

Deputy Head of Unit, New European Bauhaus Joint Research Centre, European Commission







"Together with partners in Ukraine, we will launch a capacity building programme for Ukrainian municipalities. To share knowledge for rebuilding smartly."

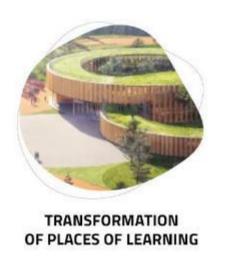
Ursula von der Leyen, President of the European Commission







INNOVATIVE FUNDING







NEB GOES SOUTH









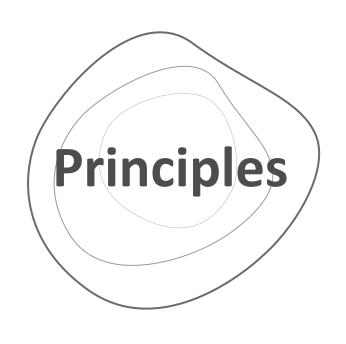




ACTIONS FOR UKRAINE

NORDIC CARBON NEUTRAL BAUHAUS

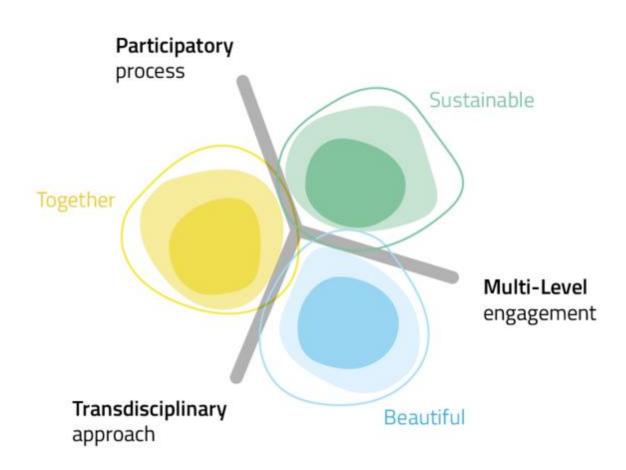
NEB Lab: Actions for Ukraine



- Short term emergency solutions should be connected to long term reconstruction and development objectives, to avoid wasting money and energy.
- All forces should be pointed towards giving a sense of purpose and to avoid a brain drain. Therefore equal partnerships and codevelopment of projects are key.
- Support to urgency management and reconstruction should also aim at rebuilding the Ukrainian economy, creating jobs, **up-skilling the workforce** and adapting the industrial ecosystem in Ukraine.

NEB provides a framework aligned with EU policies and which connects sustainability, social inclusion and cultural challenges well recognized by the Ukrainian partners.

New European Bauhaus **Compass:**Core values and working principles



A guiding framework for decision-makers and project managers wishing to apply NEB principles and criteria to their activities

Expert reports

housing typology, circularity (debris material), capacity building

Concrete recycling: Cutting edge technology "carbon nega

treatment plant

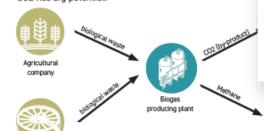
"Carbonated recycled concrete" is produced from carbonated recycled aggregates: the CO2 sequestered by aggregates is stored in the concrete. Carbonization creates negative carbon emmissions up to 10%.

During the production process of carbonated concrete more carbon is captured than is emitted making the resulting concrete carbon-negative.

Carbonization requires CO2 in liquid form; CO2 is a comon by-product of many plants: biogas, water treatment, cement production, etc CO2 is captured and liquified; recycled aggregates are combined with liquid CO2 in special autoclaves to produce carbonated recycled aggregates; these aggregates can further be used to produce carbon negative concrete.

Producers worldwide: www.neustark.com (concrete aggregates) www.carbicrete.com (concrete elements) To establish carbonated recycled aggregates industry the cooperation between CO2 producers and recycled aggregates producers is necessary.

Since, Ukraine has a strong agricultural sector which produces tonns of biological waste annually, and current situation in energy sector will most likely result in the group of biogas industry, the cooperation between biogas plants that emitt CO2 and recycled aggregates plants that capture CO2 has big potential.



Straw-clay-wood prefabrication: Technology

- Very good insulation: 40 cm facadepanels reduce heating and cooling up to 80% compared to standard walls
- Wood-straw panels plastered with clay have fireresistance class REI 60
- Exceptional sound insulation 56 Db (40 cm facadepanels)
- Space requirements for production plant approx. 1200 sqm covered production space, approx 250 sqm storage
- Production doesn't require expensive equipment
- Prefabrication allows for fast construction and decreases materials usage
- Current legislation: Wooden frame construction allowed up to 3 stories, more with concret or metal frame construction
- straw-clay-wooden prefabricated panels have great potential in UA to become available as non-load bearing wall material as alternative to standard insulation materials (foam concrete, mineral wool, foam plastics, etc.)





Finets and houses produced by Life House Building Company Source: https://www.instagram.com/file.house.building

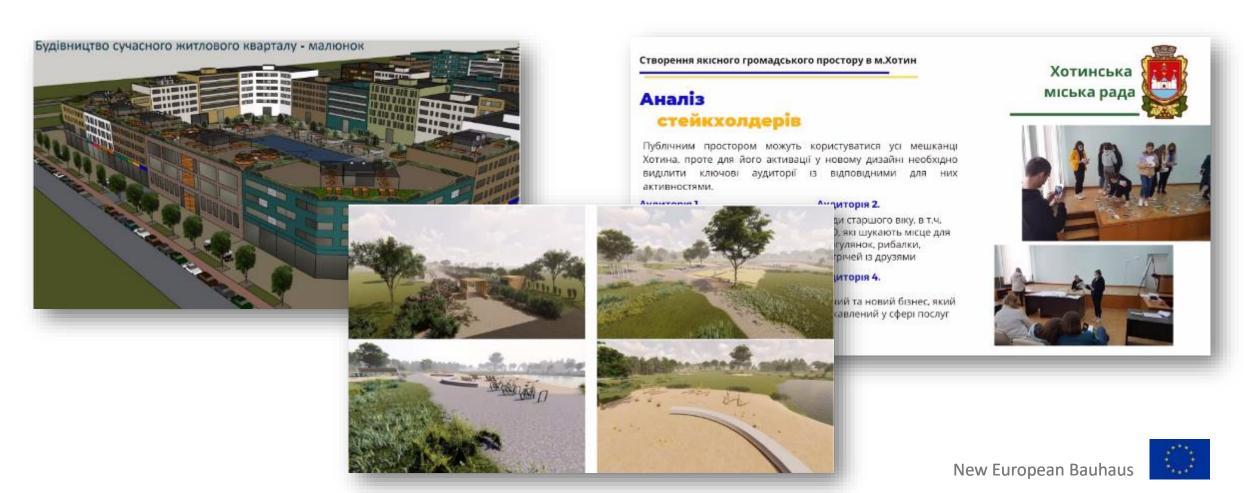
10% smaller carbon

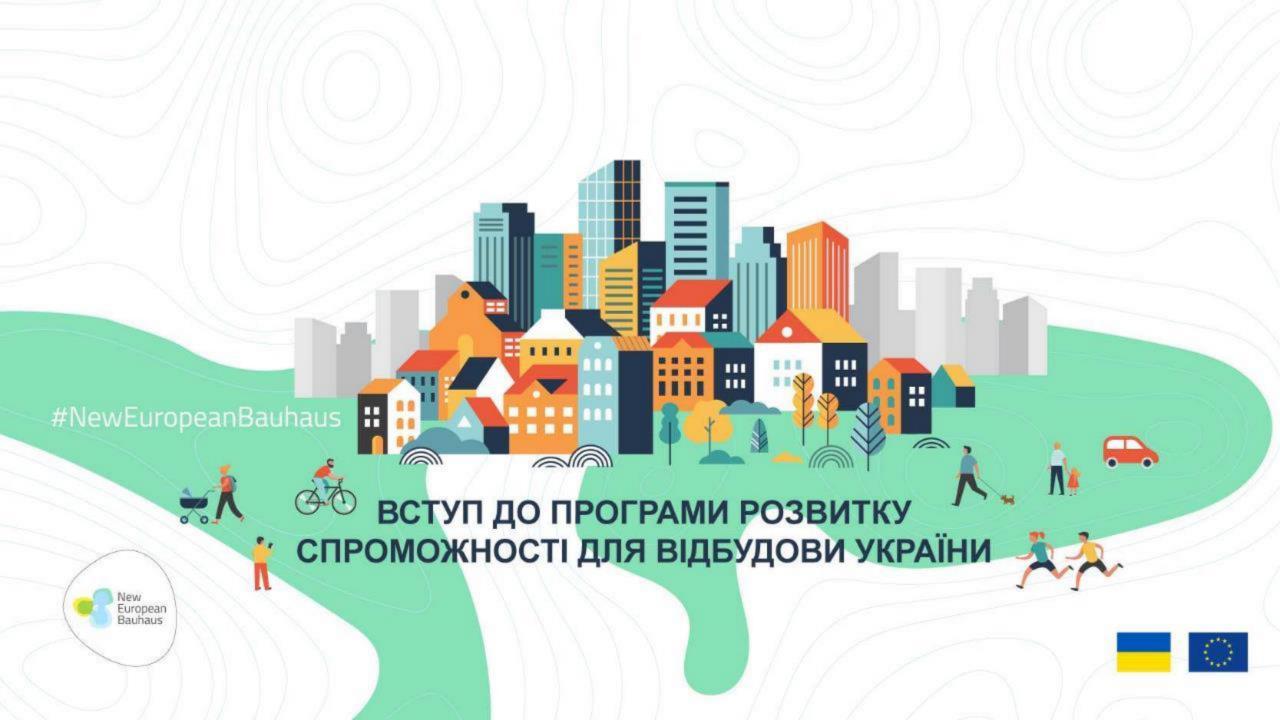




Capacity Building

preparing for reconstruction, circularity (debris material), housing (re)construction, integrated urban planning





Programme overview

- 3 thematic modules which included webinars, self-study materials,
 obligatory tests and additional project tasks
- 3 curators and 30 involved speakers from Ukraine and Europe
- 560 unique applicants for Modules 1/2/3
- Participation from 65 teams from all Ukrainian regions



cities, urban & regional development

Module 1 – Getting organised for reconstruction



cities, urban & regional development Module 2 – Circularity and Energy

Efficiency



cities, urban & regional development.

Module 3 – Housing Redevelopment and Maintenance



Module 1

Main themes

- Leadership, teamwork and motivation to plan and organise work
- Project's workflow in hromadas (communities)
- Participation in reconstruction projects
- Financial opportunities for hromadas

Key findings

- Lack of human resources and motivation
- Discrepancy between project management skills of small and large hromadas
- Need for training in the use of participatory tools for citizen engagement
- Need for assistance in preparing applications for funding
- Need for long term and systematic consulting or in-house expertise and support in project implementation



СТРАТЕГІЯ ЗАЛУЧЕННЯ

Наймонування стейсовдерай±тели реализиції проокту (інструменти інформування та запучання	Підготовчий етап	Розроблення Плану	Прийняття рішення	Реалізація	Моніторинг
Органи влади	Інформування, ініціатор створення робочої групи	Інформування, проведення анхетування, SWOT-вналіз	Підготовка проекту рішення про затвердження Конплексного плану	Інформування	Проведення моніторингу
Бізнес	Рабоча група	Інформування, участь в анхетуванні, годання пропезицій	Інформування, запучання до громадського обговорення	Участь у конеурсі проектів, громадські вонсультації	Бифортування, отнтування, робоча група
orc	Робоча група	Інформування, анкстурання, збір потреб	Інформування, запучення до громадського обговорання	Участь у конкурсі проектів, гронадські вонсультації	Інфорнування, робоча прупа
Громадяни	Опытування, інформування	Інформування, анектування, збір потреб	Інформування, запучення до громадського обговорення	Участь у конкураі прояктів, грамьдажі консультації	Отитування, інформування





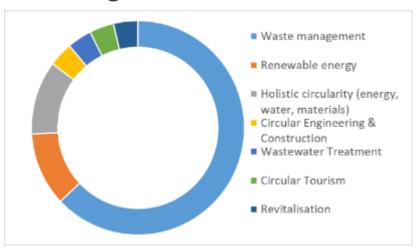
Module 2

Main themes

- Autonomous, sustainable and resource efficient circular cities and communities
- Technologies and solutions for resource efficient and sustainable cities and communities
- Circular management of debris and demolition waste and reuse of demolished buildings
- Implementing a circular project in Ukraine: challenges and experience

Key findings

- Lack of human resources in circularity
- Need for new relevant contacts of technology providers and assistance/consulting on circularity
- Considerable interest in projects on waste management



Module 3

Main themes

- What is housing and the role of municipalities
- Housing sphere in Ukraine and solutions elsewhere
- Economics of land and housing
- Finance in the housing (re)development
- Where to start planning housing development

Key findings

- NEB in Ukraine has a huge potential in ensuring that municipal projects are done to the highest quality of planning and implementation
- Existing attention in the selected projects to qualitative design and aesthetics contribute to the creation of better conditions for mental well-being of IDPs and their integration
- Need for an exchange in design solutions for the development of safety strategies and energy-efficiency strategies



DREAM Pipeline ≡

Projects

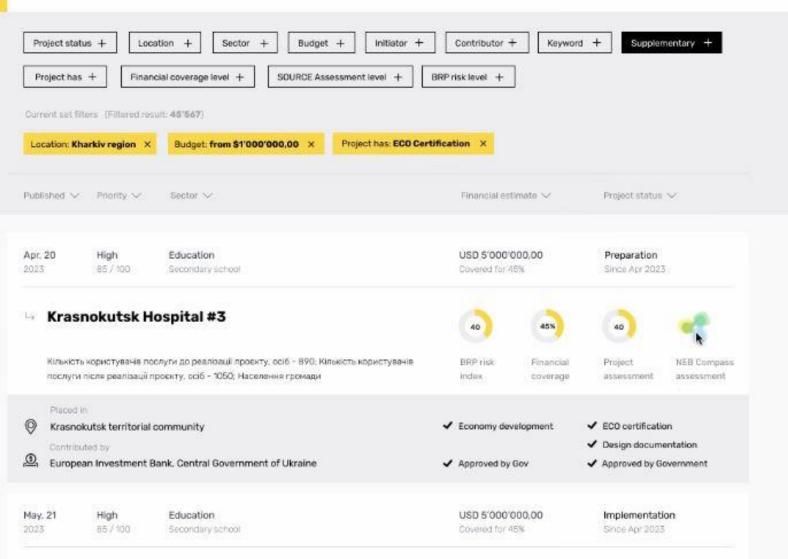




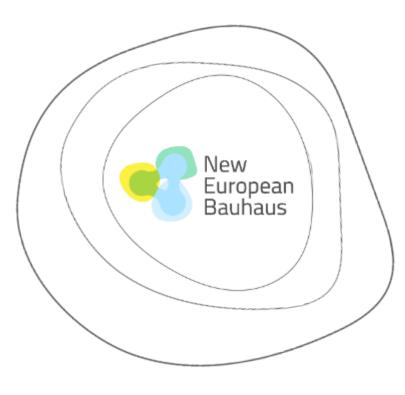








CROSS-BORDER COOPERATION PROGRAMMES				
Interreg NEXT Poland-Ukraine	Total budget: EUR 236 million selection ongoing			
Interreg NEXT Hungary-Slovakia-Romania- Ukraine	Total budget: EUR 83 million call deadline: 20/12/23			
Interreg NEXT Romania-Ukraine	Total budget: EUR 68 million call deadline: 08/01/24			
TRANSNATIONAL COOPERATION PROGRAMMES				
Interreg NEXT Black Sea Basin	Total budget: EUR 85 million selection ongoing			
Interreg Danube	Total budget: EUR 225 million call opens in November 2023			
INTERREGIONAL COOPERATION PROGRAMMES				
Interreg EUROPE	Total budget: EUR 384 million programme includes all EU Member States, the addition of UA currently being finalised			
URBACT	Total budget: EUR 87 million programme includes all EU Member States, the addition of UA currently being finalised			



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