





Housing Urgency in Ukraine

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Study on Housing Urgency in Ukraine

Object of the study: urgent housing that emerged during the first eight months of war (February – October 2022) in response to forced displacement within Ukraine after the full scale invasion by Russia. Study was conducted from August till October 2022.

Why? Existence of an acute housing crisis durinng the first months

of war and a lack of instruments to solve it.

What? Systematization of existing knowledge to support sustainable

decisions on local levels.

Who? Local actors, i.e., municipalities, NGOs, and private investors.





Study on Housing Urgency in Ukraine

Focus 1.

Identifying current problems with the housing supply based on the experience of the local authorities.

Online survey

Focus 2.

Showcasing and analysing selected urgent housing projects in Ukraine.

Field research

Focus 3.

Developing a housing system in Ukraine using five categories of housing.

Diagramming

1

Identifying current problems with the housing supply based on the experience of the local authorities.

Methodology: Problematisation is based on the results of an online survey conducted in October 2022 among the administrations of 60 amalgamated hromadas (which are part of the network of Covenant of Mayors) about the current situation with housing, the needs of IDPs, and the perception of their position and plans. Further conclusions are based on secondary sources.





Housing privatisation that started in 1992 in Ukraine was conducted through transferring housing units to citizen (renter) ownership free of charge. As for now, approximately 95 per cent of the housing stock is in private ownership, and only 5 per cent is in state or municipal ownership.

This situation led to the creation of a certain culture of housing development, management, and 'consumption'. The housing sector is market-driven. Housing is considered a commodity. Most of the housing stock is of moderate quality and the number of typologies is limited. Authorities on all levels have very minor influence on the housing supply.

The scale of the current displacement in Ukraine is illustrated by the numbers: 6.9 million internally displaced persons and 7.4 million refugees (30 per cent of the total population).* In addition to this, the vulnerable group of citizens that were not directly affected by war increased considerably.

'The war has caused the fastest and largest displacement of people in Europe since the Second World War.'

Osnat Lubrani, Humanitarian

The situation in the housing sector after the full-scale invasion became dramatically difficult and led to growing inequalities in Ukrainian society. Consequently, a new housing policy needs to be developed on all levels.

Coordinator in Ukraine

A phenomenon specific to displacement in Ukraine has emerged: the refugee-commuter. Some 69 per cent of IDPs are planning to return to their home cities and only 11 per cent are planning to integrate into their host communities (source: IOM, 28 September 2022). Moreover, a significant number of refugees have already returned to Ukraine. This provides insight into the need to create a flexible social housing stock that could help to provide IDPs and other vulnerable groups of society with comfortable housing where they can live with dignity for an undefined period.

^{*} Six million people are considered to have returned.





In July, the National Council for the Recovery of Ukraine from the War published a draft of the *Housing Reconstruction Plan*, which includes short—, mid—, and long—term strategies that should help answer the housing question in full scope until 2032.

After eight months of war, there needs to be an understanding of the actors, areas of responsibility, sources of financing etc., in terms of housing provision.

Self-organised civic initiatives and local actors were the first to respond to the crisis, creating new shelter and housing provision patterns.

Along with this, a certain inertia of private development still exists, which follows the pre-war principles.

Most decisions were taken to solve immediate problems without considering the broader context.

Alongside the state as an actor in the provision of housing to IDPs, it is very important to redefine and reflect on the role of local actors – first of all – administrations of amalgamated hromadas and municipalities as key actors in housing provision, the diversification of the housing sector, and the potential to create a discourse where housing would be perceived as a human right and not as a commodity.

It is therefore essential to create an exchange between the local authorities about their current situation with housing, the needs of IDPs, and their perception of their position and plans.

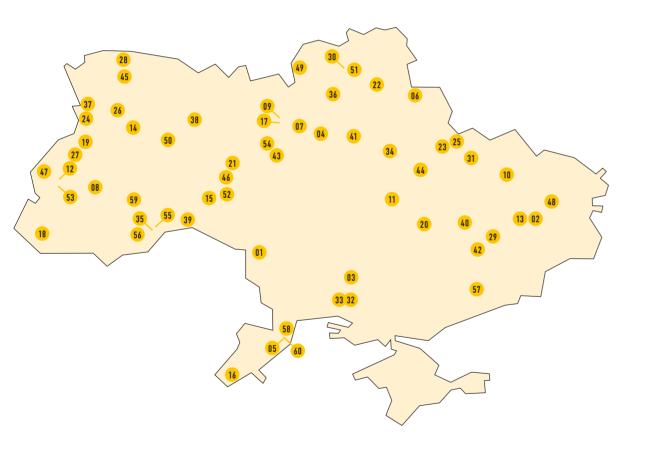




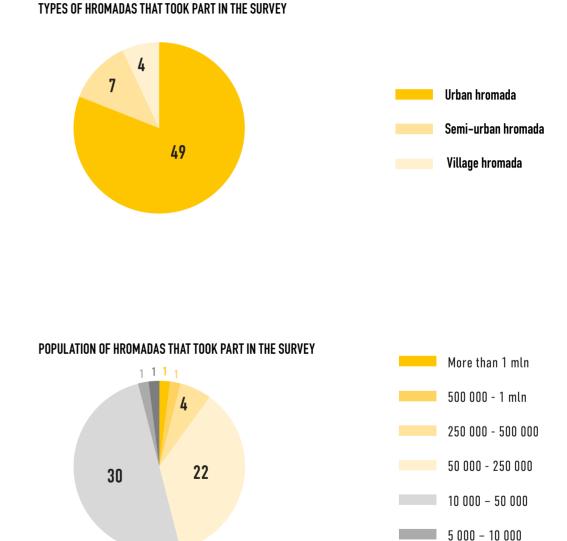
Analysis of the online survey on the housing situation* among local authorities of amalgamated hromadas**

*conducted between 4 and 12 October 2022

^{**}respondents: 60 amalgamated hromadas





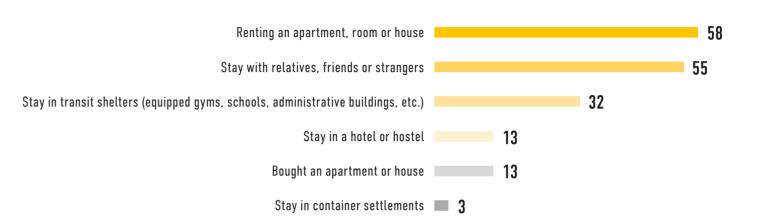






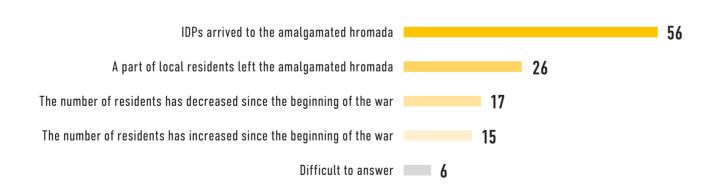
INFLUENCE OF THE WAR ON HROMADAS THAT TOOK PART IN THE SURVEY





PLACE OF RESIDENCE OF IDPS IN THE HROMADAS THAT TOOK PART IN THE SURVEY

INTERNAL MIGRATION WITHIN THE HROMADAS THAT TOOK PART IN THE SURVEY



HOW DO HROMADAS THAT TOOK PART IN THE SURVEY CONSIDER THEIR SITUATION WITH HOUSING



Study on Housing Urgency in Ukraine

Nataliia Mysak • Philipp Meuser

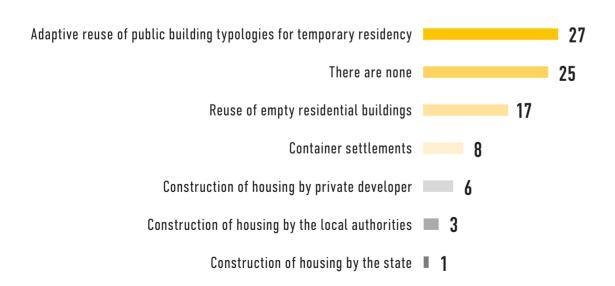




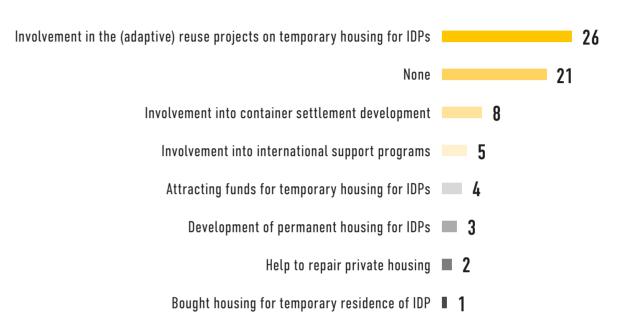
REASONS FOR HOUSING DEVELOPMENT AND IMPROVEMENT. AS STATED BY HROMADAS THAT TOOK PART IN THE SURVEY



NEW TYPES OF HOUSING THAT APPEARED IN HROMADAS SINCE FEBRUARY 2022



INVOLVEMENT OF HROMADA AUTHORITIES IN THE PROJECTS RELATED TO HOUSING SINCE FEBRUARY 2022



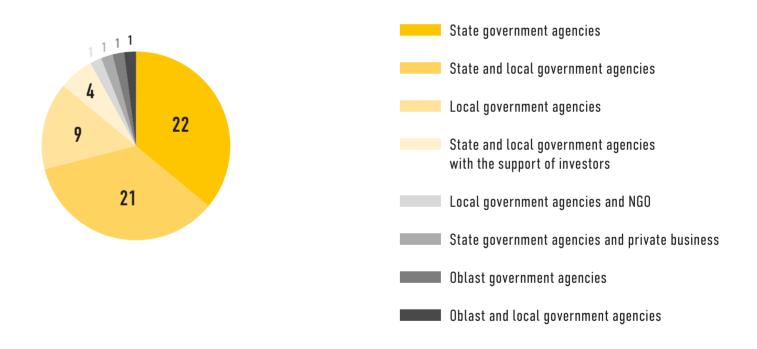




DO HROMADAS PLAN TO DEVELOP COMMUNAL HOUSING?



WHO COULD PROVIDE ALL CATEGORIES OF THE POPULATION WITH HOUSING IN THE MOST EFFECTIVE WAY IN THE CURRENT SITUATION ACCORDING TO HROMADA AUTHORITIES?







Conclusions

- 1. There is a need for almost all territorial hromadas to develop new housing and/or improve the existing housing stock for local residents and IDPs.
- 2. Since February 2022, housing has been developed with the involvement of local authorities, businesses, NGOs, and civic initiatives in different constellations. Specific new patterns of urgent housing models emerged.
- 3. Adaptive reuse of public and residential buildings as urgent housing is the most geneal approach developed with local authorities. Private development is taking place in many hromadas. Many hromadas are considering modular buildings as a possible option for development.

- 4. There is no shared vision of who is responsible for housing provision. At the same time, local authorities are increasingly gaining agency and considering themselves as actors.
- 5. Authorities of different hromadas have different experience and apply different approaches, so it might be practical for them to exchange experiences and information about opportunities and possible partnerships.
- 6. Only a few amalgamated hromada authorities have a housing strategy or vision. Activities are mostly based on ad hoc decisions and quantitative indicators.

- 7. Some of the hromadas are considering taking on the role of municipal housing developers. The lack of financing is the most widespread reason local authorities do not get involved in housing development. Promoting a more integrated and strategic approach to the issue is therefore essential.
- 8. There is a need to understand the housing types that would solve the urgent need and how to inscribe them in the broader housing system in Ukraine.
- 9. Based on the existing projects, we could reflect on the role of municipalities in the housing provision process as well as on the housing sector diversification and development of alternative models and typologies.

2

Showcasing and analysing selected housing projects for IDPs in Ukraine.

Methodology: The case studies of residential projects illustrate a specific category of projects that have emerged in Ukraine since the beginning of the fullscale invasion — and they have a particular feature that distinguishes them from others. We try to find the strengths in these projects and point out the risks. Most of the projects were visited during the field trips in **August and October.**





Case Study No. 1 Shelter in Kharkiv Metro Stations

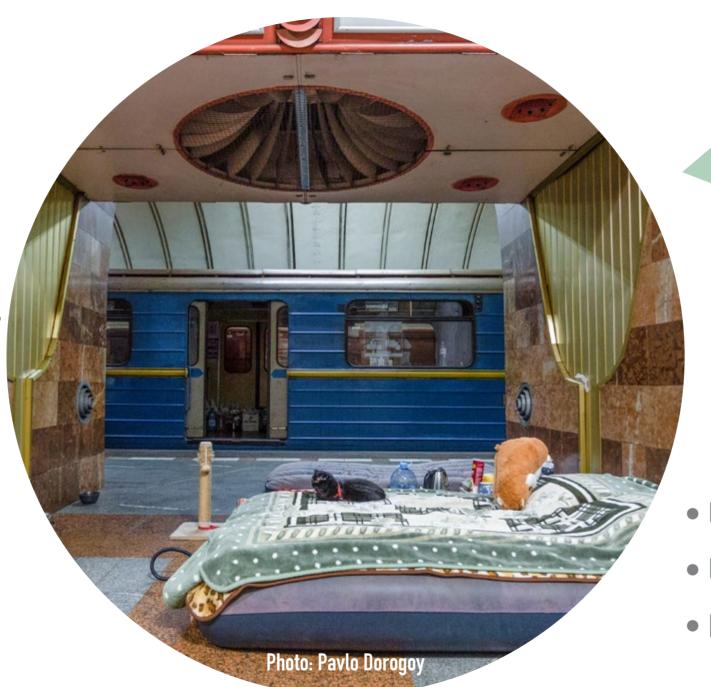
Metro stations in Kharkiv were designed as possible safety rooms. They served this purpose and functioned as temporary housing over the first three months of the full-scale invasion. Even eight months later, citizens of Kharkiv are still using the metro stations for both of these purposes. The functioning of the shelter was based on the self-organisation and constant support of the activists with some aid supplied by the municipality.

Location: Kharkiv Metro

Duration: 3 months (Feb-May 2022)*

Capacity: Undefined

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Usage of precaution facilities

Usage of shelter within one day

High level of acceptance by users





Case Study No. 2 Underground Car Park of the Fayna Town Housing Complex

This shelter had already been identified as such in the planning process. By the end of February 2022, it was being used as a bomb shelter by the people living in the Fayna Town housing complex.

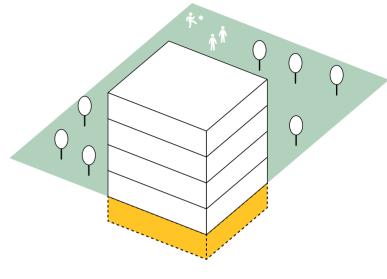
Location: Kyiv

Design: Archimatika (2019—ongoing)

Capacity: Undefined

Organisation method: Self-organised





- Usage of precaution facilities
- Usage of shelter within one day
- Limited level of acceptance by users (preferred: refuge in apartments)





Case Study No. 3 **Shelter in the Palace of Sport Halychyna**

The sports hall was reorganised as a temporary shelter for IDPs with the application of modular frameworks made of cardboard designed by Shigeru Ban.

Location: Kerchens'ka Str. Lviv **Development: March 2022**

Capacity: 144 persons

Cooperation: Shigeru Ban, Hubert

Trammer, Drozdov and Partners, Replus

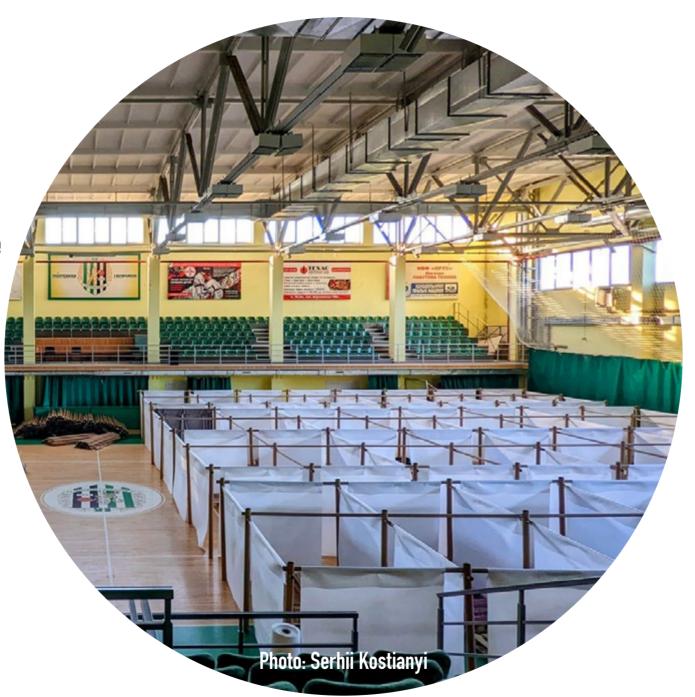
bureau. Ponomarenko Bureau. Lviv

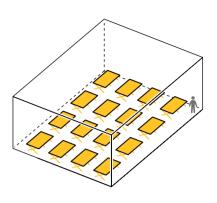
municipality

Manufacturer of the modular framework:

Corex, Poland

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- Use of existing facility that has basic infrastructure
- Modular framework provides additional privacy
- Quick and easy installation of the modular framework
- Possibility to reuse and recycle the elements of the system





Case Study No. 4 Temporary Modular Houses on Private Plots

Light structures assembled on the plots of destroyed private houses.

Location: Bucha

Development: May 2022

Time of residency: May 2022 —

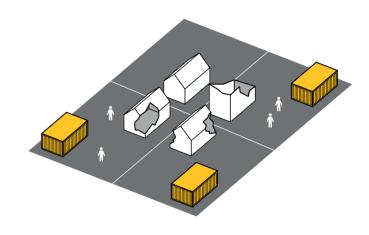
until the cold season

Capacity: 5 modules for 5 families

Cooperation: UN and local authorities

Donor: United Nations





- Possibility for people whose homes were destroyed to stay on their own plots and gradually repair their homes by themselves
- Possibility to reassemble the structure when needed and relocate to another plot
- Quick and simple assembly/DIY



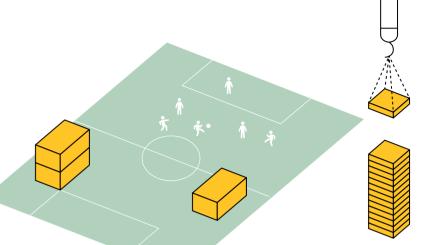
Case Study No. 5 First Container Settlement in Lviv

Temporary container settlement for IDP families who arrived from Kyivska, Sumska, and Chernihivska oblasts.

Location: Sports playground in Stryyskyy Park, Lviv Initiator: Lviv municipality Development: March—April 2022 Time of residency: April—September 2022

Capacity: 70 containers/350 people Donor: Government of Poland





- Quick assembly
- Moderate comfort
- Supply with social services and humanitarian aid
- Central location in a recreational area with social infrastructure
- The modular settlement has been deinstalled before the cold season





Case Study No. 6 Pilot Project of Two Sections of Modular Housing

A pilot project developed based on the principle of a temporary modular housing system for IDPs that contains different configurations of residential and non-residential units.

Location: Region of Bucha

Estimated time of development: 3 months

Estimated time of residence: 18 months

Capacity: 15 families

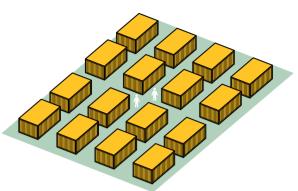
Design: Balbek bureau

Project cost: USD\$990,000

Financing: Crowdfunding

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- Needs additional attention to urban analysis in order to choose appropriate location, correct scale, and method of integration into the existing social infrastructure
- contain a risk to turn into permanent solution
- Involvement of local industries
- Quick assembly/disassembly
- Ownership intended to be transferred to the local community
- Modules can be reused

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Case Study No. 7

Reuse of a Dormitory in Ivano-Frankivsk

Refurbishment of an abandoned dormitory that had not been in use for five years.

Location: Stepana Bandery Str, Ivano-Frankivsk

Development: 6 weeks (May—July 2022)

Residency time: Up to 4 years

Capacity: 170 people, 24 rooms

Cooperation: CO-HATY, initiative

Second Home IF, municipality et al.

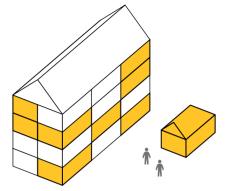
Design: CO-HATY, Cost: USD\$140,000

Donors: IM Swedish Development

Partner, MitOst, Raumpioniere, Danish

Refugee Council, individual donations.





- Community development
- Reuse approach
- Involvement of more than 100 volunteers (IDPs and potential tenants et al.)
- Involvement of local producers and contractors
- Possibility to develop a model of municipal housing on the basis of the project





Case Study No. 8 'Unbroken Mothers'

Temporary housing for displaced pregnant women and women with children.

Location: Nad Dzherelom Str, Lviv

Initiator: Lviv municipality, First Medical

Association of Lviv with the support of the

Ministry of Health of Ukraine

Development: 3 months (May—July 2022)

Time of residency: Up to 6 months

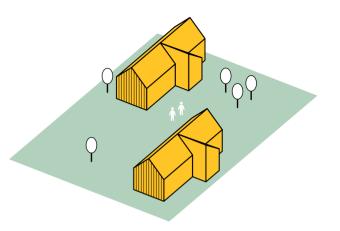
Capacity: 104 people

Design: Sulyk Architects

Project cost: 850\$USD/sq m

Donor: ICRC





- Targeted design and planning for a precise vulnerable group of IDPs
- Park as an integrative element
- Amid a recreational neighbourhood but at a distance from the centre
- Possibility to change the function
- Possibility to implement the project in other locations
- Contemporary design with a simple timber construction method



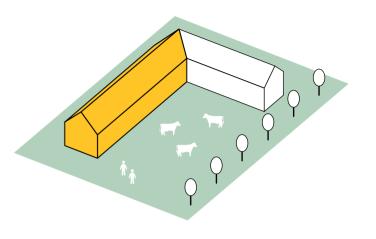


Case Study No. 9 Adaptive Reuse and Reconstruction of an Old Farm

DIY housing for displaced people who are residing in the collective shelter in the city of Morshyn.

Location: Horishnie village
Cooperation: Private initiative with
the involvement of building materials
producer Hempire
Development: Since August 2022
Expected completion: Spring 2023
Capacity: 30 rooms
Cost: USD\$350/sq m

Photo: Philipp Meuser



- Involvement of the future tenants helps to create community and reduce construction costs
- Use of circular materials and construction methods
- Countryside allows farming and independent self-supply

Financing: International donors





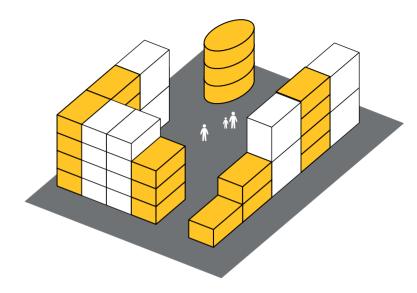
Case Study No. 10

Elaboration of an Affordable Housing Model for the city of Vinnytsia, Ukraine

The working group was established in August 2022 and aims to find a way to make housing more affordable within the local context and take existing issues into account. The strategy is based on the previous experience of municipal housing development that started in 2006 (see photo, 2022)

Location: Vinnytsia, Ukraine
Working group: Mayor and municipality,
communal enterprises: Agency of Spatial
Development and Institute of Urban
Development in cooperation with IBA 27,
giz, Cedos, CANactions, Urbanyna





- Existence of a permanent working group that has the capacity to work within multiple fields
- Initial knowledge of municipal housing development
- Development of the contextual model of the housing system
- International cooperation

3

Developing a housing system in Ukraine using five categories of housing.

Methodology: Based on the diagramming method, the selected examples helped us to identify five housing categories. These categories could become part of an integral housing system that could help local stakeholders to consider the category needed and adjust them to their specific context.





Five categories of housing

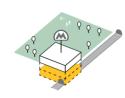
Category 1. Shelter

Category 2. Emergency housing

Category 3. Urgency housing

Category 4. Accelerated housing

Category 5. Standart housing





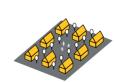














precaution structures

temporary structures / modular or container buildings in reserve

permanent structures / pre-approved projects, reuse, self-help

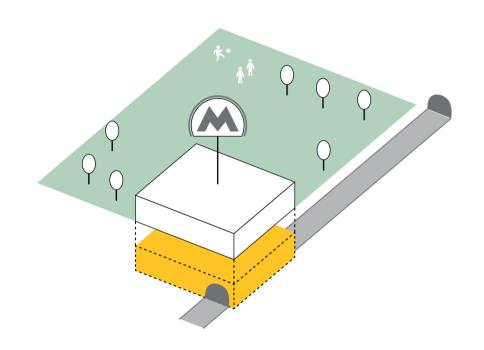
permanent structures / local type projects, reuse, recommendations

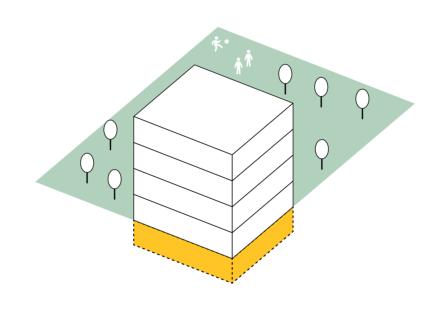
permanent structures / market-orientated typologies

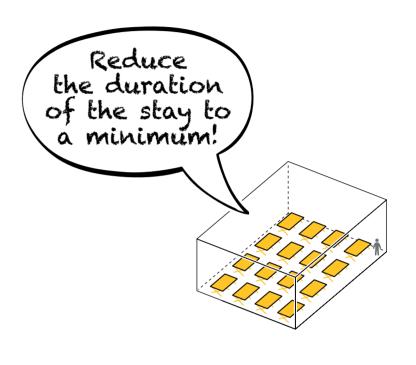




Category 1: Shelter Precaution facilities







Metro stations

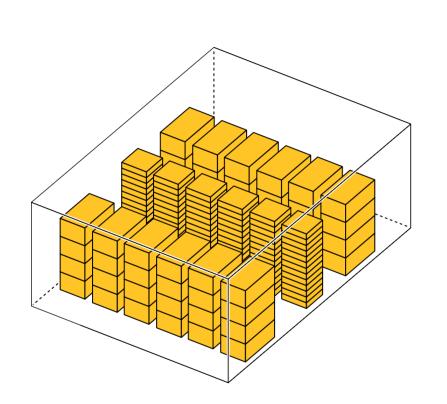
Basements of residential buildings

Gymnasiums/public halls

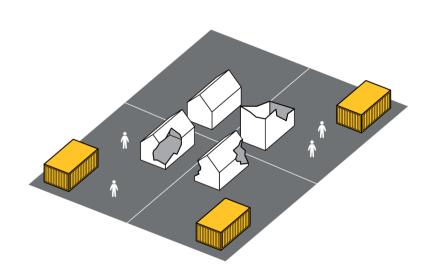




Category 2: Emergency Housing
Modular or container buildings in reserve







Modules in reserve

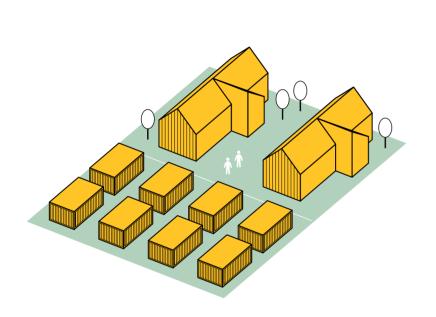
Use of public spaces

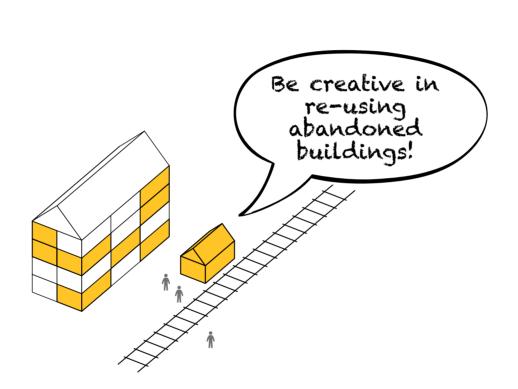
Support of private homeowners

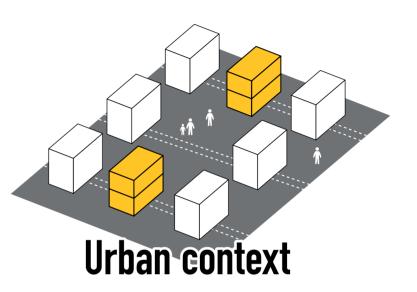


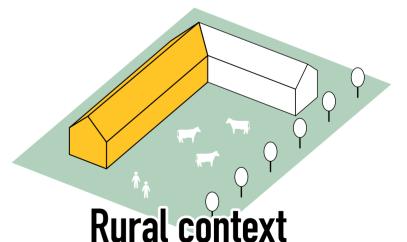


Category 3: Urgency Housing
Pre-approved projects, reuse, self-help









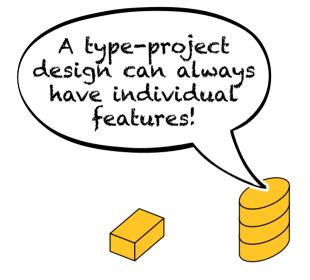
Pre-approved housing projects (or super-fast permissions procedures)

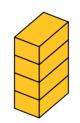
Immediate transformation of the existing housing stock

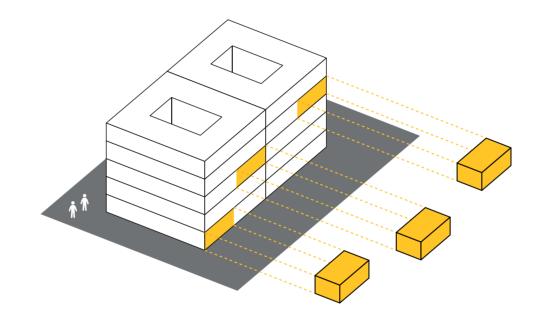


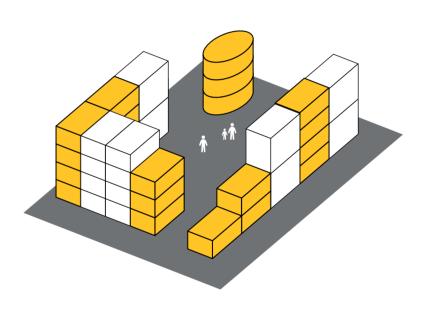


Category 4: Accelerated Housing
Local type projects, reuse, recommendations









Approved building typologies

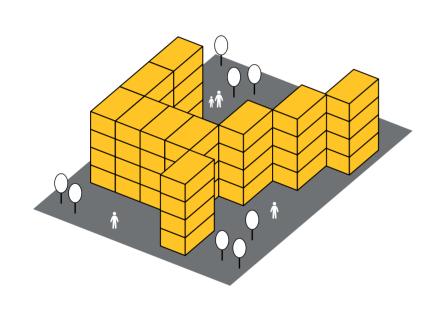
Transformation of the existing housing stock

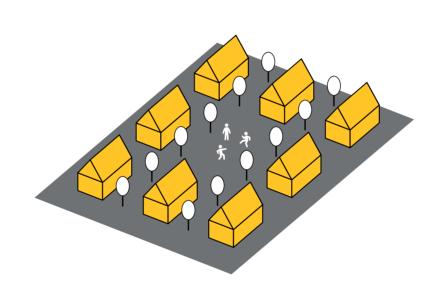
Densification of urban structures/quarterisation

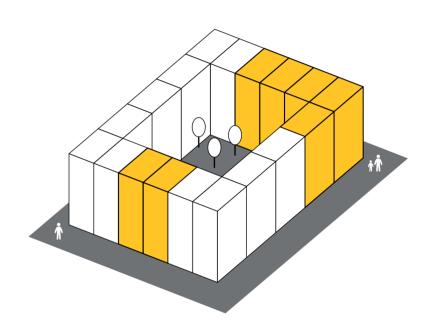




Category 5: Standard Housing Market-orientated typologies







Standard housing complexes

Rural housing typologies

Densification of urban structures

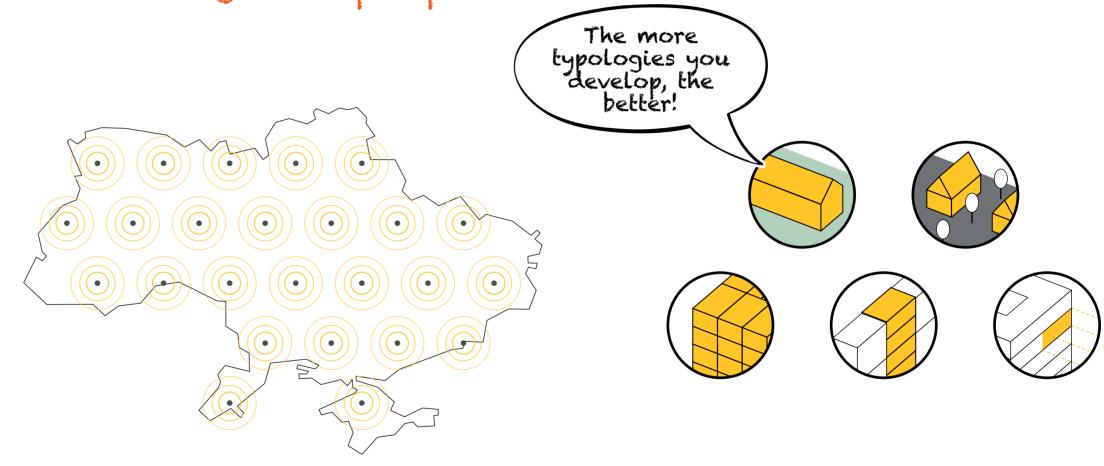




Long-term Housing Strategy 'Ukraine 2050'

Long-term perspective





Round tables

1,400+ hromadas

All typologies

Conclusions and Directions for Further Research

1

Emergence of new actors and models of urgent housing has a potential to become prerequisite for diversification of housing market.

- In the first months of the war, new actors in housing development emerged: the first urgent housing facilities were created with the participation of local administrations and the third sector.
- The urgent housing, that emerged covers the needs of a small percentage of persons in search of homes. Along with this, many cases of urgent housing could be considered as models to be scaled up.

Conclusions and Directions for Further Research

2

There is a need and prerequisites for the development of a new culture of practice and coproduction of knowledge at various levels.

- In the situation of lack of capathities and resources some of the urgent housing projects were developed with application of principles of commoning and intuitive circularity. They could become a basis for more conscious architectural production.
- Regions within Ukraine are experiencing very diverse challenges, connected with affection by war and pre-war capacities of communities. The immediate networking of all stakeholders is a step towards the establishment of a nationwide discussion and development of local housing strategies.

Conclusions and Directions for Further Research

3

The housing question in Ukraine cannot be tackled only by construction of new housing, but by reconsidering of the whole housing sector.

- There is a need for tools that could help to think beyond the binaries of short- and long-term strategies, temporary and permanent solutions, connect spatial concepts and legal procedures.
- Understanding housing as a system could help to overcome the fragmentation of the housing sector, cover the need of all groups of society and aquire adaptive capathity.







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