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# **New European Bauhaus** Housing Urgency in Ukraine (Project A)

Dr. Nataliia Mysak, Zürich/Lviv • Prof. Dr. Philipp Meuser, Berlin/Kharkiv • 7 November 2022

Study on Housing Urgency in Ukraine







# **Project A: Urgent Housing (Contract: CT-EX2022D633135-101)**

### Why? **Existence of an acute housing crisis** and a lack of instruments and strategic visions to solve it.

- What? Managing existing knowledge to support sustainable decisions on local levels.
- Who? Local decision makers, i.e., municipalities, NGOs, and private investors.





# Study on Housing Urgency in Ukraine (Project A)

### Focus 1.

Supporting local authorities by identifying current problems with the housing supply.

### Focus 2.

Showcasing and analysing selected housing projects for **IDPs in Ukraine**.

Focus 3.

## Online survey

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### **Developing a housing supply** system for Ukraine using five categories of housing.



1

Supporting local authorities by identifying current problems with the housing supply.

**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 marketdriven. 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

Coordinator in Ukraine

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

\* Six million people are considered to have returned.

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.

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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 a clear 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.

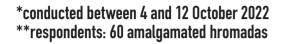
Most decisions were taken to solve immediate problems without considering the broader context.

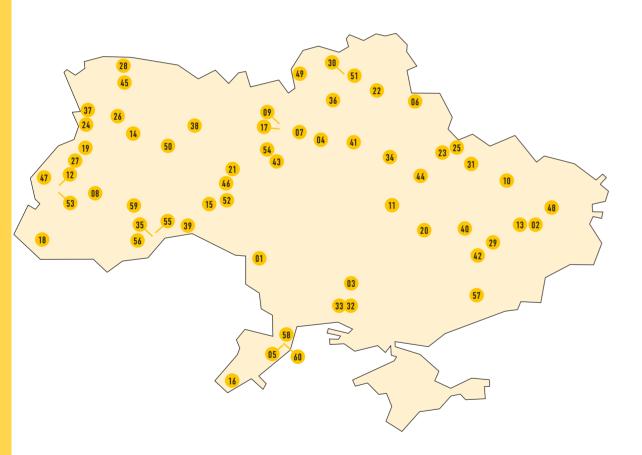
Alongside the state as an actor in the provision of housing to IDPs, it is very important to redefine and reflect on the role of local actors - first of all – administrations of amalgamated hromadas and municipalities as key actors in housing provision, the diversification of the housing sector, and 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\*\*

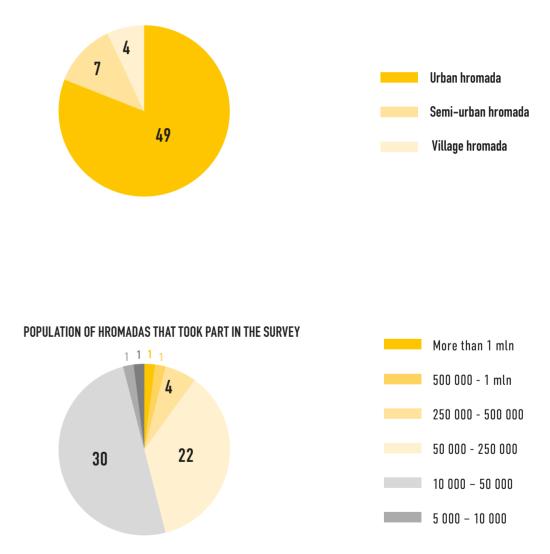




### 01 Балтська ТГ 31 Мереф'янська ТГ 32 Миколаївська ТГ 02 Бахмутська ТГ 03 Баштанська ТГ 33 Миколаївська МР 04 Березанська ТГ 34 Миргородська ТГ 05 Білгород-Дністровська ТГ 35 Недобоївська ТГ Білопільська ТГ 36 Ніжинська ТГ 07 Броварська ТГ 37 Нововолинська ТГ 08 Бурштинська ТГ 38 Новоград-Волинська ТГ 09 Бучанська ТГ 39 Новодністровська ТГ 40 Павлоградська ТГ 10 Вишнева ТГ 11 Горішньоплавнівська ТГ 41 Пирятинська ТГ 12 Дрогобицька ТГ 42 Покровська ТГ 13 Дружківська ТГ 43 Пологівська ТГ 14 Дубенська ТГ 44 Полтавська TГ 45 Прилісненська ТГ 15 Жмеринська ТГ 46 Прилуцька ТГ 16 Ізмаїльська ТГ 47 Самбірська ТГ 17 Ірпінська ТГ 18 48 Сєвєродонецька ТГ Іршавська ТГ 19 Кам'янка-Бузька ТГ 49 Славутицька ТГ 20 Кам'янська ТГ 50 Славутська ТГ 21 Козятинська ТГ 51 Сосницька ТГ 22 Конотопська ТГ 52 Тростянецька ТГ Краснокутська ТГ 53 Трускавецька ТГ 23 24 Литовезька ТГ 54 Фастівська ТГ 25 Лозівська ТГ 55 Хотинська МР 26 Луцька ТГ 56 Чернівецька ТГ 57 Чернігівська ТГ 27 Львівська ТГ 28 Любешівська ТГ 58 Чорноморська ТГ 29 Межівська ТГ 59 Чортківська ТГ 30 Менська ТГ 60 Шабівська ТГ

06

### TYPES OF HROMADAS THAT TOOK PART IN THE SURVEY



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### 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

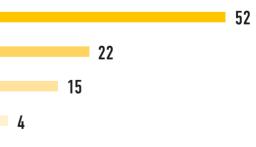


### **Study on Housing Urgency in Ukraine**

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

there is a need for new housing there is a need for better quality housing there is a need for reconstruction of the housing after destructions the number and quality of housing meets the current needs 📃 💪



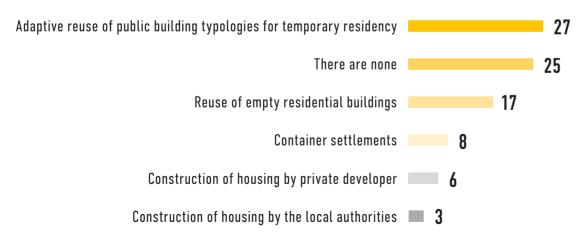




### REASONS FOR HOUSING DEVELOPMENT AND IMPROVEMENT. AS STATED BY HROMADAS THAT TOOK PART IN THE SURVEY



### NEW TYPES OF HOUSING THAT APPEARED IN HROMADAS SINCE FEBRUARY 2022



Construction of housing by the state **1** 

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

Involvement in the (adaptive) reuse projects on temporary housing for IDPs

Involvement into container settlement development

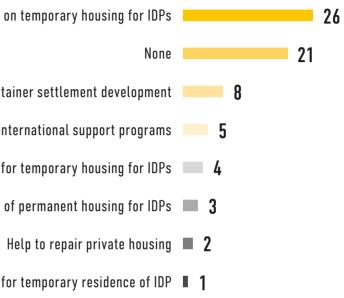
Involvement into international support programs 5

Attracting funds for temporary housing for IDPs 4

Development of permanent housing for IDPs 📃 3

Bought housing for temporary residence of IDP









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?

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### 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 general 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 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.

- system in Ukraine.

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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

**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 favourably 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.



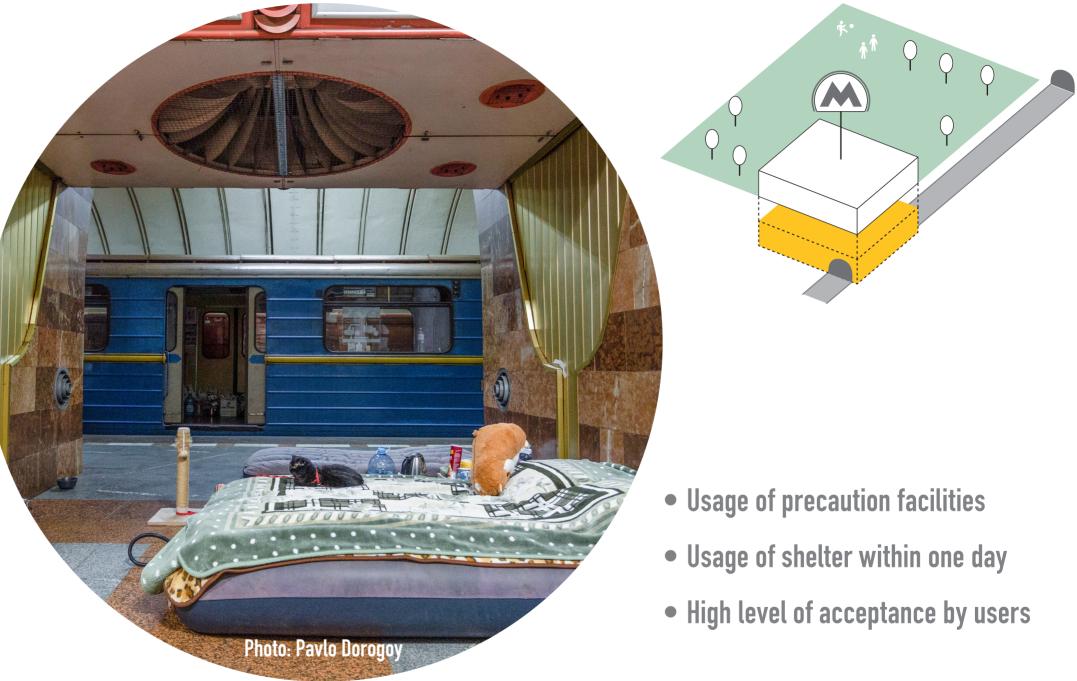
### **Case Study No. 1 Shelter in Kharkiv Metro Stations**

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, Ukraine Duration: 3 months (Feb-May 2022)\* **Capacity: Undefined** 

\* Some are still in use.

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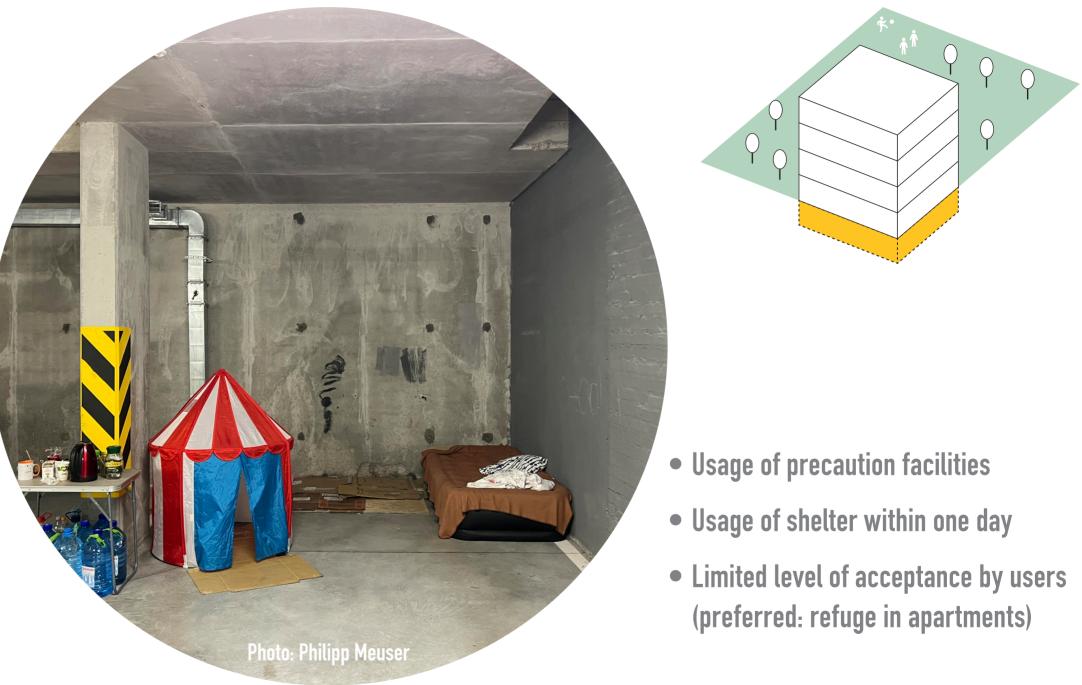




### Case Study No. 2 **Underground Car Park of the Fayna Town** Housing Complex

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, Ukraine **Design: Archimatika (2019–ongoing) Capacity: Undefined Organisation method: Self-organised** 







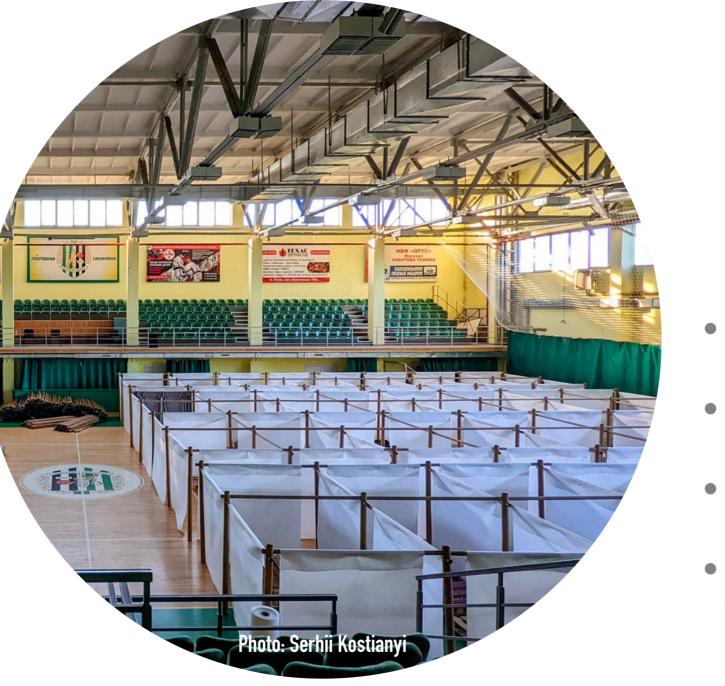
### Case Study No. 3 Shelter in the Palace of Sport Halychyna

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, Ukraine Development: March 2022 Capacity: 144 persons Cooperation: Shigeru Ban, Hubert Trammer, Drozdov and Partners, Replus bureau, Ponomarenko Bureau, Lviv municipality

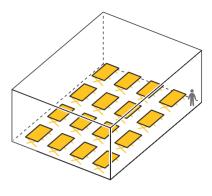
Manufacturer of the modular framework: Corex, Poland





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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, Ukraine **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** 



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own plots and gradually repair their structure when needed and relocate

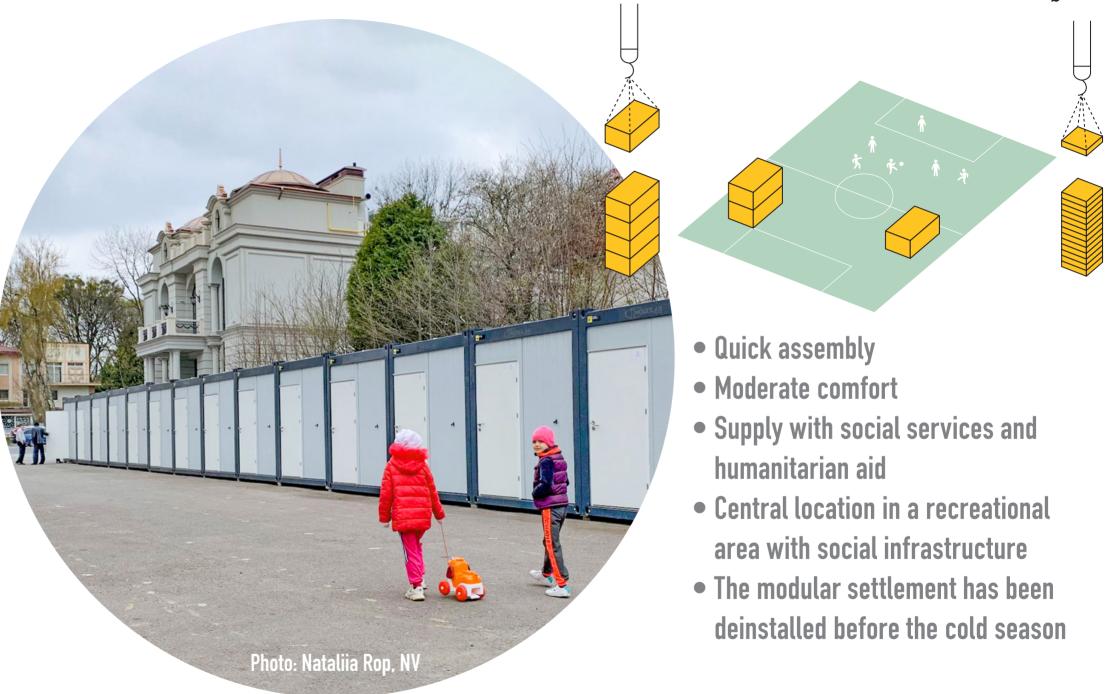


### **Case Study No. 5 First Container Settlement in Lviv**

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

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

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



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### 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 nonresidential units.

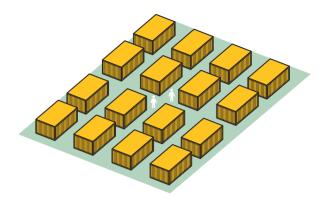
Location: Region of Bucha, Ukraine Estimated time of development: 3 months Estimated time of residence: 18 months Capacity: 15 families Design: Balbek bureau Project cost: USD\$990,000 Financing: Crowdfunding



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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
Involvement of local industries
Quick assembly/disassembly
Ownership will be transferred to the local community/users
Modules can be reused



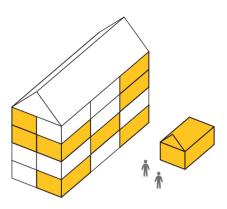
### Case Study No. 7 Reuse of a Dormitory in Ivano–Frankivsk Refurbishment of an abandoned dormitory that had not been in use for five years.

Location: Stepana Bandery Str, Ivano-Frankivsk. Ukraine **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.** 



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- Community developmentReuse 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. Ukraine **Initiator: Lviv municipality 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



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### **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, Ukraine **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 **Financing: International donors** 

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### 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

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# 3

Developing a housing supply system for 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.



Category 1: Shelter	
Category 2: Emergency Housing	Modular or container bu
Category 3: Urgency Housing	Pre-approved projects and
Category 4: Accelerated Housing	Type-project designs fo
Category 5: Standard Housing	Market-ori
Long-term Housing Strategy 'Ukraine 205	0' Long



### Precaution

### uildings in reserve

### tender documents

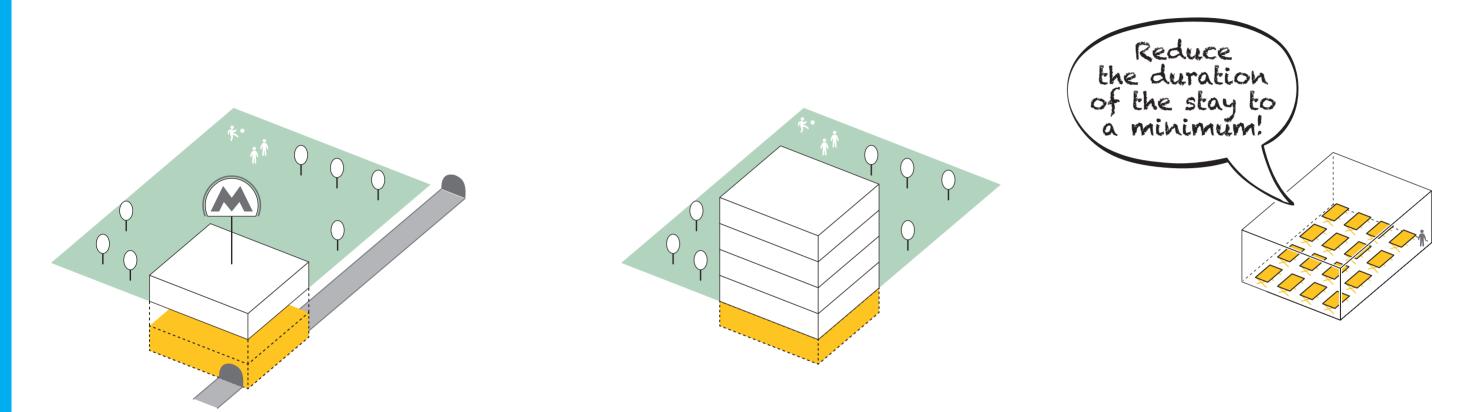
### or fast permissions

### ientated typologies

### Long-term perspective



### Category 1: Shelter Precaution



### Metro stations

### **Basements of residential** buildings.



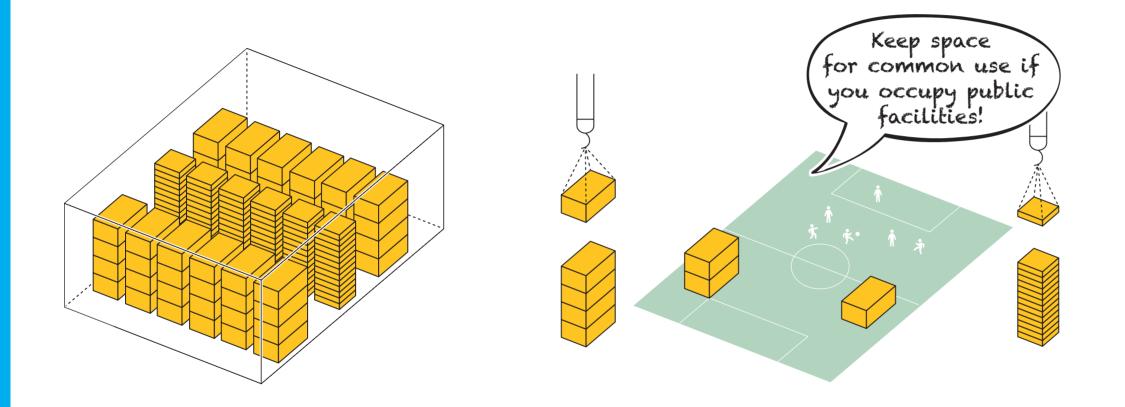
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## **Gymnasiums/public halls**



### Category 2: Emergency Housing Modular or container buildings in reserve

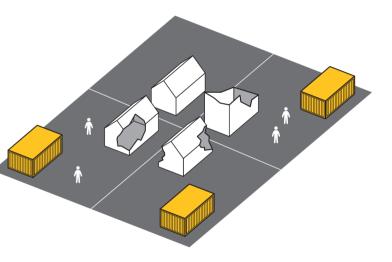


## Modules in reserve

### Use of public spaces

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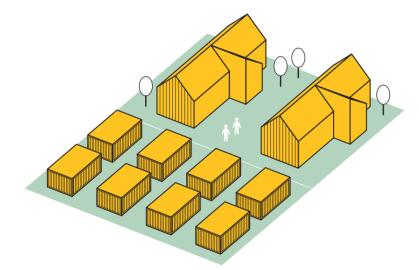


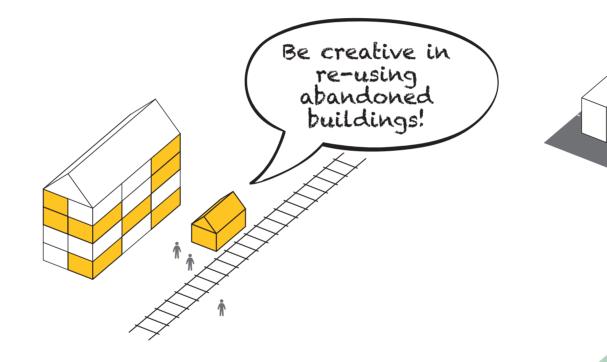


# Support of private homeowners



## Category 3: Urgency Housing Pre-approved projects and tender documents





## **Pre-approved housing projects**

(or super-fast permissions procedures)

### Immediate transformation of the existing housing stock

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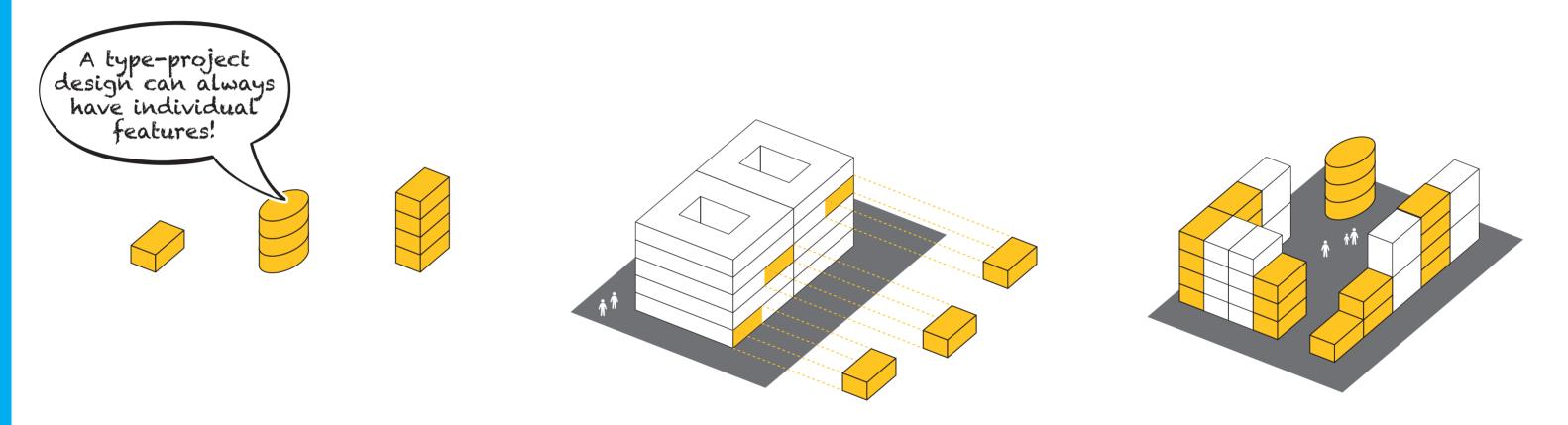


# **Urban context**

## **Rural context**



## Category 4: Accelerated Housing Type-project designs for fast permissions



## Approved building typologies

# Transformation of the existing housing stock

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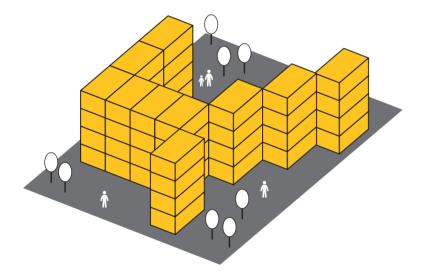


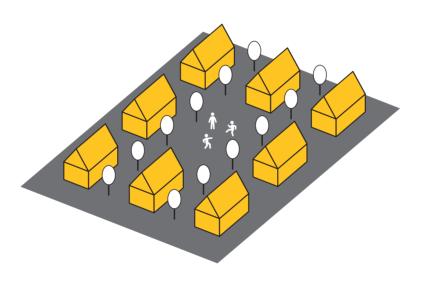


### ensification of urban uctures/quarterisation



## Category 5: Standard Housing Market-orientated typologies





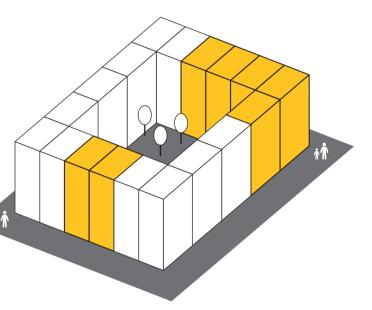
## Standard housing complexes

## **Rural housing typologies**



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### **Densification of urban** structures





### **Round tables**

1,400+ hromadas

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# All typologies

# **Conclusions and Directions for Further Research**

- Local administrations together with civic initiatives, businesses, and international actors have already developed new approaches to address the current housing situation. However, there is a need to create strategic visions of how to connect short- and long-term visions, temporary and permanent solutions, spatial concepts, and legal procedures in a sustainable way as well as to find a way to scale them up, as current approaches can cover the needs of only a very small percentage of those in the need of housing.
- International cooperation in management and funding remains necessary, but not in design. An exchange in design solutions is needed in terms of the development of safety and energy-efficiency strategies.
- Existing attention paid to qualitative design and aesthetics in the selected projects contributes to the creation of better conditions for the mental well-being of IDPs and their integration.
- The immediate networking of all stakeholders is a step towards the establishment of a nationwide discussion and the development of local housing strategies. Five categories of housing could be helpful in starting some of those discussions.



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