

RE

PORT

META

LAB

2022



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INTRO DUCTION TION



FOREWORD

WHO ARE METALAB?

OUR FOCUS AREAS FOR 2023

FOREWORD

At the beginning of 2022, the METALAB team held a series of strategic sessions to identify global priorities and focuses. Three days later, February 24 came. Russia's massive shelling of Ukraine relegated our plans and strategic discussions. Nevertheless, we continued our work and adapted to the new conditions of war. From the very first days, our team joined the Save Ukraine Now project as volunteers. A few weeks later, we started thinking: how can we help with our architectural expertise? And we found such a way.

This is not the first time that METALAB has been tested for resilience by the crisis, but this year we have not only survived but also grown a lot as a team. We have been professionally strengthened by new partners, team members, and employees who have relocated from less secure regions. We have developed a work culture that allows us to constantly adapt to new circumstances and be prepared for several development scenarios. Always being flexible and empathetic has become a core principle of our work.

Our team has now narrowed down to two main focus areas that meet the needs of our new reality. The CO-HATY project emerged at a time when we were helping to resettle relatives, friends, colleagues, and organizations that sought refuge in

our safer region. This is how we came across the first university dormitory, which had been empty for a long time. Together with the initiative of university professors, we began to create housing for internally displaced persons (IDPs). This year, we managed to refurbish 4 buildings that can accommodate about 700 people. In this project, we not only design and build comfortable spaces for those who need them, but also create a community helping people integrate into the new city.

The second area is the makerspace, which we have been developing step by step for the fourth year in a row. Since the beginning of the full-scale war, it has become a shelter for businesses that moved their entire production facilities to Ivano-Frankivsk and needed not only free space but also workshops to continue their operations. The makerspace also provided the CO-HATY project with the capacity to prototype and manufacture the necessary furniture for IDPs. Together with our partners from the New Economy of Ivano-Frankivsk project, we held product design workshops and participated in the Save Business NOW initiative. So, a makerspace is not only a physical space with equipment that is used by the locals and new residents of Ivano-Frankivsk. It is also a program that helps people working in the fields of engineering, art, science, design, and architecture to adapt and develop in such a difficult time. Thus, our projects always intersect and reinforce each other, forming a strong and capable community.

This year we got very tired, but still motivated by the fact that our activities have acquired new meanings and we see the impact we are having on the city, the region, and the country. Helping not only ourselves and our team, but also those in need is the greatest inspiration for us, and we believe that in this way Victory is getting closer.

ANNA PASHYNSKA

CURATOR AND CO-FOUNDER OF THE NGO «METALAB»



WHO ARE METALAB?

METALAB is an urban development laboratory in Ivano-Frankivsk that aims to research the needs of the city and the region, create livable public spaces, and develop a community of like-minded people so that the number of active citizens and urban development experts in the region increases. Therefore, our projects can be divided into the categories of WE CREATE and WE SHARE.

WE CREATE:

- Spatial and thematic urban research
- Design of public spaces
- Architectural projects
- Product design

WE SHARE:

- Through educational laboratories, workshops and programs
- Through public events
- Through urban and artistic residencies
- Biennial Festival «City Scanning Session»
- Participatory workshops

METALAB is both a community united by interest in urban life, a commitment to learning about and improving the urban environment, and a physical platform for communication, urban research, and events.

METALAB space is located on the pilot floor of the Promprylad.Renovation project. Together, we are working on integrating a large-scale factory revitalization project into the city's space and community.

One of our projects on the territory of this former factory is the Parasolka makerspace, a workshop with equipment and tools for people involved in engineering, art, science, design, etc. We create this space to develop the maker culture in the city and the region, and we also use it to design and create our products for the city.


VISION:

METALAB strives to see Ukrainian cities and communities with social equality, comfortable spaces, cultural diversity, and an economy that considers the needs and constraints of the environment.


MISSION:

METALAB aims to create a stimulating environment, a field for experimentation, where the social and spatial potential of the city can be developed and tested in practice.


OUR FOCUS AREAS FOR 2023



CO-HATY - creating comfortable housing for internally displaced persons. For 2023, the team is already looking for the next buildings to restore. Together with our partners from New Housing Policy, we are also developing a vision for a relevant and effective model of social housing in Ukraine.



METALAB's Parasolka makerspace at Promprylad. Renovation includes the development of workshops, modeling of spatial solutions, purchase of equipment and setting up a makerspace operational flow. This process will continue throughout 2023. At the same time, we will build an ecosystem for the development of innovations in product design and applied science.



The New Economy of Ivano-Frankivsk (NEF) project aims at increasing the ability to create and improve products based on the principles of sustainability, circular economy, and universal design. In 2023, the METALAB team will continue to work in the format of workshops and will also carry out preparatory work for the opening of a makerspace.

2022

IN

PRO

JECTS



NEW ECONOMY OF IVANO-FRANKIVSK (NEF) • WE SHARE



PARASOLKA MAKERSPACE BY METALAB • WE CREATE
AND WE SHARE

RESEARCH ON MOBILITY BEHAVIOR
IN IVANO-FRANKIVSK • WE CREATE





WHAT IS CO-HATY?

(HATY) – in Ukrainian, «HOUSES»

(COHATY) – in Ukrainian, “TO LOVE”

CO-HATY is a co-housing project for people who lost their homes due to war.

The full-scale russian invasion of Ukraine forced around 12 million Ukrainians to flee their homes. About 6.5 million of them moved to the west of the country. The lack of housing became a huge challenge, and we started thinking: how can architects help?

At that time, fellow architects from the Kyiv-based Urban Curators agency and the Kharkiv-based NGO Critical Thinking joined the METALAB team

in Ivano-Frankivsk. Together, we formed the idea of CO-HATY, temporary housing created with love and dignity.

At CO-HATY, we restore existing buildings and create comfortable living spaces, following these principles:





PILOT PROJECT

The pilot project involved restoring a part of a dormitory in Ivano-Frankivsk. At the time, we had no funding, no tools, no materials, but we had determination. The whole team picked up spatulas, started working on the construction site, and engaged the community.

More than 150 volunteers joined us in the process. Most of them are IDPs from different cities of Ukraine. The project was also supported in other cities and countries: we received donations of money, building materials, furniture, bedding, and even house plants.

In just 6 weeks, we completed the renovation and residents moved into the dormitory in May.

Pilot project, Ivano-Frankivsk (March and May, 2022)

Photo: Anastasiia Kubert



OTHER BUILDINGS OF 2022

The pilot project showed us that we need to continue. So in 2022, we started restoring three more buildings - two in Ivano-Frankivsk and one near Kamianets-Podilskyi. At the end of the year, residents moved into one of these spaces.

The work with these buildings has become more extensive - it includes redevelopment and replacement of engineering systems (electricity, heating, water supply, and sewage systems).

To implement the CO-HATY project, we apply architectural and urban expertise, cooperate with local authorities and property owners, seek funding for repairs and furnishings, coordinate the construction process, and design furniture and visual style for the spaces.

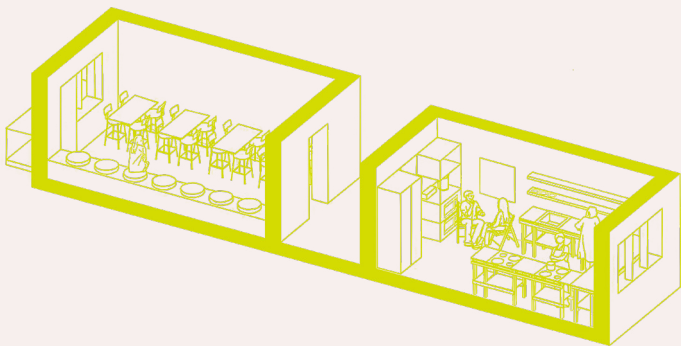
Dormitory in Zinkivtsi, near Kamianets-Podilskyi

Photo: Oleksandr Demianiv



Planning

Visualization: Varya Yahnysheva



Third project in Ivano-Frankivsk. Former hotel building

Photo: Anastasiia Kubert



Interior of the second building in Ivano-Frankivsk.

Former office of the department of education

Photo: Anna Pashynska



COMMUNITY DEVELOPMENT

An important component of the CO-HATY is the involvement of (future) residents into the planning, repair and management of the spaces. This facilitates their integration into the new community and gives them a sense of ownership.

One example is the design of a courtyard near one of the CO-HATY buildings, which was supported by the New Democracy Fund and the Izolyatsia platform. We held a workshop with the residents where they described and depicted the desired space of the courtyard. Everyone found their own tool for this: collage, photography, drawing or mapping. Later, the workshop participants joined in cleaning the yard, clearing the garden and trimming the bushes, because they already felt that this yard belonged to them.

Photo of the volunteer team



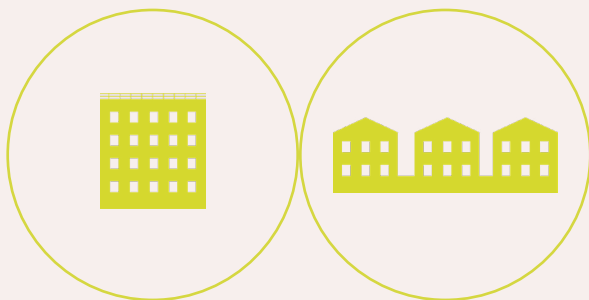


WHAT'S NEXT?

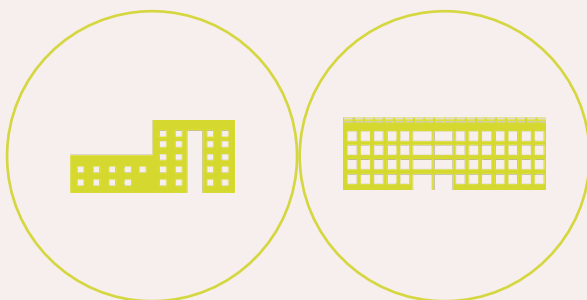
We continue creating comfortable housing for internally displaced persons and are already looking for the next buildings to restore. Together with our partners from New Housing Policy, we are also developing a vision of a relevant and effective model of social housing in Ukraine.

CO-HATY IN NUMBERS

2 BUILDINGS HAVE ALREADY BEEN RESTORED



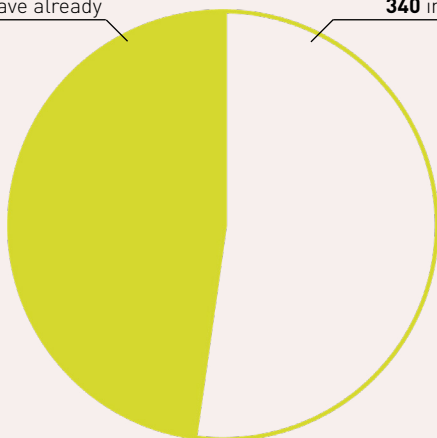
2 ARE IN PROGRESS

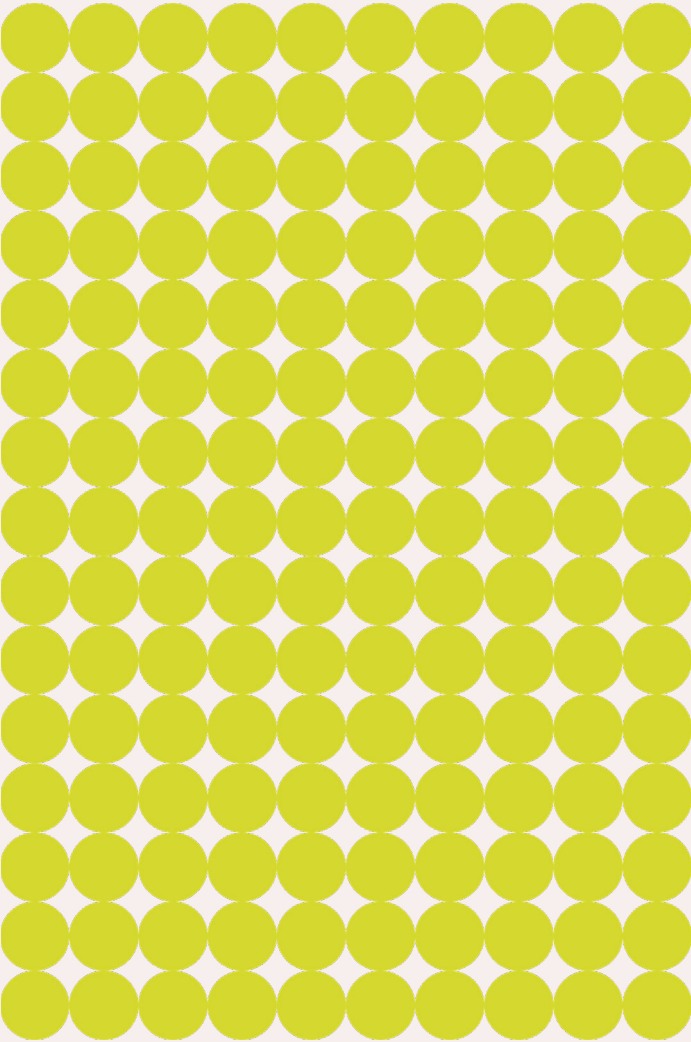


650 PLACES FOR ACCOMMODATION

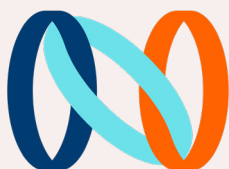
310 places have already
been created

340 in the process





NEW ECONOMY OF IVANO-FRANKIVSK (NEF) • WE SHARE



NEF

НОВА ЕКОНОМІКА
ІВАНО-ФРАНКІВСЬКА

The project «New Economy of Ivano-Frankivsk (NEF) - supporting emerging innovative economic activity clusters in Ivano-Frankivsk» is funded by the European Union's Mayors for Economic Growth program.

Product design is one of the key topics METALAB is working on as part of the «New Economy of Ivano-Frankivsk» project.

Our task in this project is to increase the capacity to create and improve products based on the principles of sustainability, circular economy, and universal design.



During the first 9 months of its operations in 2022, the «New Economy Ivano-Frankivsk» project supported the activities of the Save Business Now crisis coordination center and, in response to the challenges of the war, implemented activities to support local and relocated businesses.

THIS SUPPORT INCLUDED:

- 12 free trainings on various topics: urbanism, marketing, exports, personal branding, cooperation with the media, digital product development, successful relocation experience, team support during the war and team management, etc.
- 245 free consultations for businesses on various issues: marketing, sales, business processes, exports, grant funding, sustainable practices, business strategy, human resources management, etc.
- 4 networking events for entrepreneurs.

Among the networking events, two were organized by METALAB urban laboratory with the support of the Executive Committee of Ivano-Frankivsk City Council: a networking event for designers, architects and manufacturers on the topic «Design as a business», which gave impetus to the next event - «Factory tour» - an excursion to 3 producing enterprises in Ivano-Frankivsk.

Training within the project «New Economy of Ivano-Frankivsk»

Photo: Anton Kuba



Another format implemented by METALAB in 2022 was workshops, where the team helps entrepreneurs develop, improve, or launch new products and services.

For two weeks in September, a team of architects, designers, and technologists at the product design workshop developed designs and prototypes of furniture for use in homes for internally displaced persons (IDPs).

The workshop participants created a concept for furniture that would be used in the CO-HATY project's homes. After testing the prototype, the furniture samples went into mass production.

In 2022, preparatory work was also underway to launch a makerspace (open workshop) on the territory of Promprylad.Renovation, which will be opened in the coming years of the project.

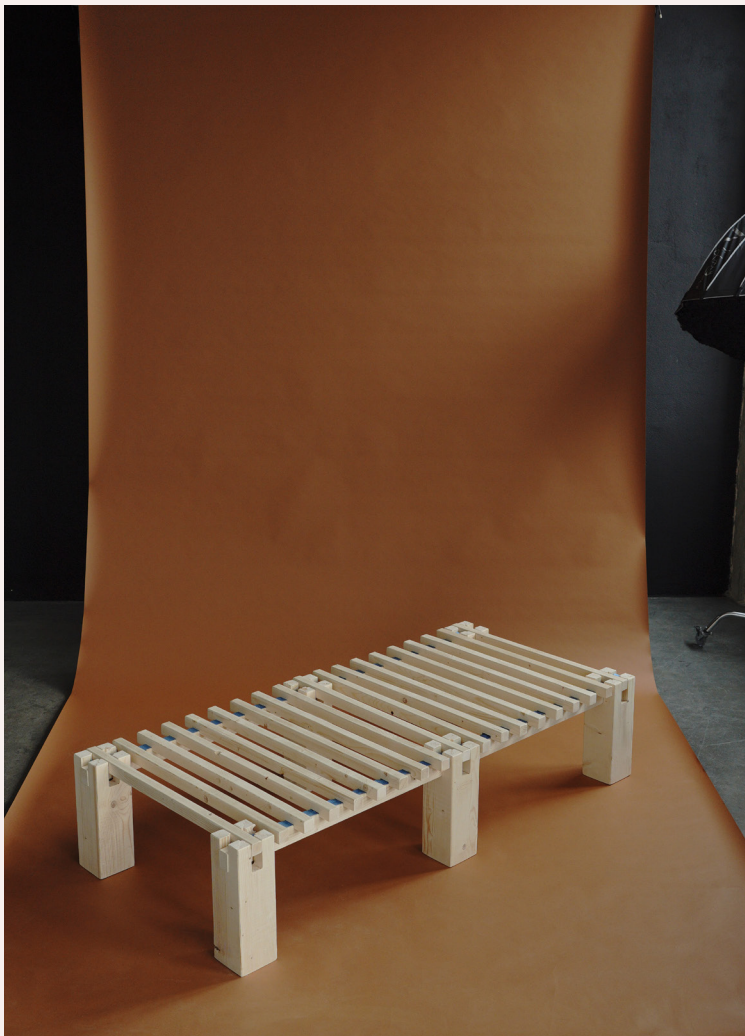
In 2023, the METALAB team will continue to work in the format of workshops and will also prepare for the opening of the makerspace.

Furniture designing workshop
Photo: Oksana Horodivska



CO-HATY bed

Photo: Oleksandr Demianiv



PARASOLKA MAKERSPACE BY METALAB • WE CREATE AND WE SHARE



WHAT IS PARASOLKA?

METALAB's Parasolka makerspace is a platform for education, experimentation, prototyping, and knowledge sharing about sustainable manufacturing. It is a space for developing new skills and products based on the principles of sustainability, circular economy and universal design.

PARASOLKA IN 2022

At the beginning of 2022, the Parasolka makerspace was home to teams of residents in wood and metalworking, as well as an R&D team in robotics. A ceramic workshop was also active in the space, hosting a ceramics school and workshops. After the full-scale invasion began, the focus of the makerspace shifted as the community in-

stantly responded to the urgent challenges. From the very first days, processes in metalworking and robotics intensified, and large teams of local makers and engineers were formed.

Residence at the opening of the Parasolka makerspace

Photo: Anastasiia Kubert



Welding of protective structures

Photo: Save Ukraine NOW



A PLATFORM FOR RELOCATED BUSINESSES

Parasolka has also become a platform for relocated makers and businesses. For example, Esper Bionics, a tech startup that develops prosthetics solutions, worked here for some time. Their Esper Hand bionic prosthetic hand appeared on the cover of Time magazine and was included in their list of 200 key inventions of 2022.

The team of the Anoeses brand, which creates erotic accessories made of leather, latex, and textiles, also moved to the makerspace. Madonna was seen wearing a corset made by the brand during NYC Pride Week 2022.

Esper Hand bionic prosthetic arm

Photo: Esper Bionics press materials



BUILDING A COMMUNITY

In addition, Parasolka's makerspace has been involved in building a community between scientists, manufacturers, engineers, and developers in Ivano-Frankivsk and the region. For example, we coordinated Mycelium Lab representatives with a scientific laboratory, biodesign experts, and companies where product samples can be tested and potentially manufactured.

Parasolka also became the base for TOLOCAR* mobile makerspaces. These are workshops on wheels that help rebuild housing and infrastructure in different parts of Ukraine, bring tools and equipment, and help develop skills in working with it. Our stationary makerspace provided infrastructure support, and the team contributed their expertise.

***TOLOCAR** is implemented by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH in cooperation with HIWW on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ)

Networking event

Photo: Andrii Sydoruk





MOBILE INTENSIVE CARE UNIT

On the basis of the makerspace, together with our partners Cadus, we implemented a mobile intensive care unit (MICU) project. Our partners brought a passenger bus from Germany to Ukraine, which was converted here for medical evacuation of patients from the frontline areas.

Most of the seats were removed from the bus and four full-fledged stations were set up to provide medical care. This allows more people to be evacuated with a smaller team of medics and drivers than if each patient was transported individually. This mobile intensive care unit has been in operation since the end of October.

WHAT WAS DONE?

- most of the passenger seats were removed, some were renovated;
- four medical beds were installed and a system of fasteners was developed to make it easy for the medical team to place them;
- the team welded fasteners for medical equipment, oxygen cylinders, etc;
- made a ramp at the entrance;
- set up a water supply to the cabin;
- installed refrigerators for medicines;
- wired the interior and took care of the backup power supply for the devices.

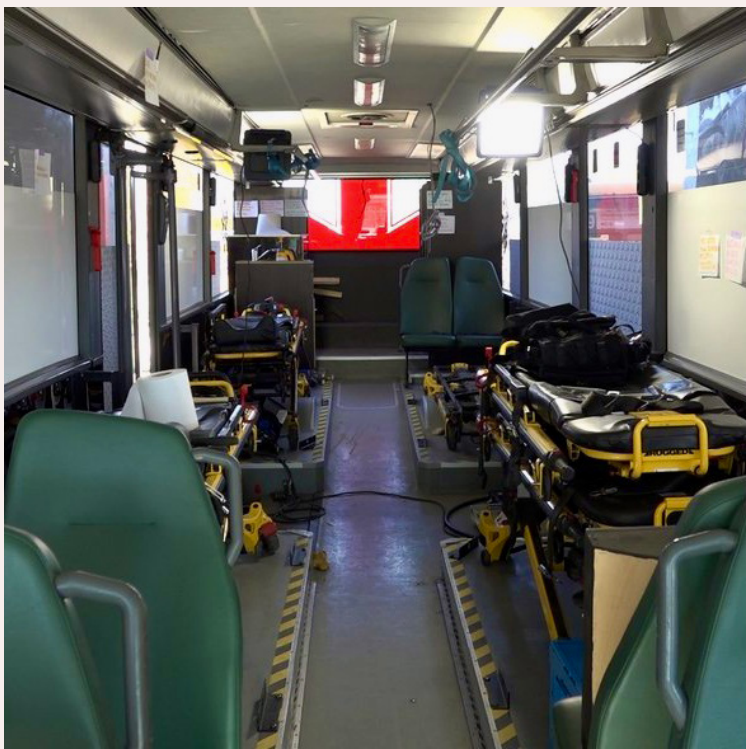
A bus to be converted into a mobile ICU

Photo: Yulia Rusylo



Interior of the mobile ICU

Photo: Oksana Horodivska



MAKERSPACE AND THE «NEW ECONOMY OF IVANO-FRANKIVSK»

Since June, makerspace has been supporting the developments and products of the «New Economy of Ivano-Frankivsk» project. In particular, it hosted a workshop on designing low-energy lamps in response to power supply shortages.

PARASOLKA MAKERSPACE IN NUMBERS:

850

SQUARE METERS OF SPACE

8

TEAMS

61

RESIDENTS

30+

PRODUCTS DEVELOPED

WHAT'S NEXT?

One of the ongoing processes is the development of Parasolka: modeling spatial solutions, purchasing equipment, and building a makerspace technology. This process will continue through 2023. At the same time, we will build an ecosystem for the development of innovations in industrial design and science. We also plan to gradually expand our team and increase our capacity to create comfortable conditions for the development and testing of ideas.



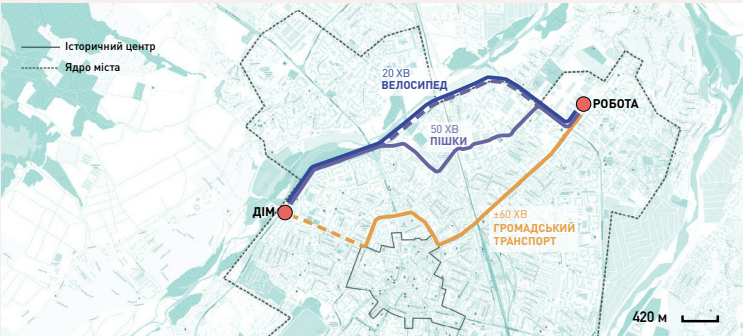
RESEARCH ON MOBILITY BEHAVIOR IN IVANO-FRANKIVSK • WE CREATE

We understand the close connection between urban spatial planning, transport infrastructure, the way people move around the city, and the quality of life in it. Therefore, in 2021, the METALAB team launched a study of transportation behavior in cooperation with our long-standing partners, Teple Misto platform. The study conceptualizes the issue of mobility behavior and provides an example of one of the analytical approaches to studying this topic.

Although the data collection was almost complete, the war interrupted the process and called into question the relevance of the findings. Nevertheless, the project team decided to complete the study almost in full, even though it reflects the status quo as of February 2022. During the first months of the war, this status changed dramatically. Due to the arrival of a large number of internally displaced persons (IDPs), the relocation of businesses to Ivano-Frankivsk, and the simultaneous departure of many local residents abroad, the demographic structure of the city and the amalgamated territorial community has undergone significant changes. The city is rapidly growing demographically and densifying. This is reflected in the current and future mobility situation in the city and requires additional research. As a response to the new circumstances of the

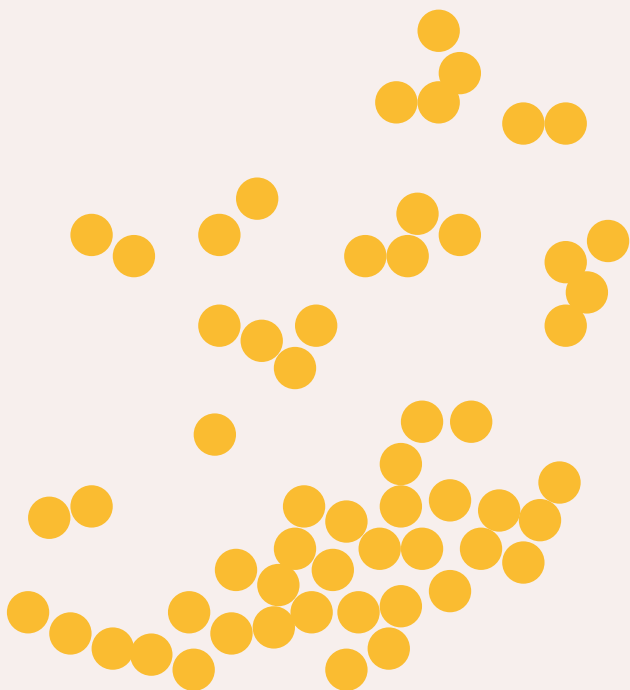
war in 2022, the project team amended its plans and worked further on analyzing the transport situation in Ivano-Frankivsk community in the context of the war and the reception of internally displaced persons. Based on this extensive analysis, a «Study of the Factors Shaping the Transport Behavior of the Residents of Ivano-Frankivsk Community» and «Recommendations for the Integrated Development of the Ivano-Frankivsk Urban Agglomeration and Reducing the Impact of Transport on the Environment» were prepared.

Daily route of a focus group respondent
Illustration: Yulia Rusylo



The project «Study of the Factors Shaping the Transport Behavior of the Residents of Ivano-Frankivsk Community» was implemented in partnership with the Teple Misto platform within the framework of the Initiative for the Development of Environmental Policy and Advocacy in Ukraine, implemented by The International Renaissance Foundation (IRF) with financial support from Sweden.

TEAM



TEAM

As of December 2021, we had a full-time research coordinator, Yulia Popova, who worked with us as a «Returned Expert» of the GIZ Migration and Diaspora Programme. She significantly strengthened our expertise in developing research methodology, gender analysis, participatory practices, preparing a qualitative research process, and transferred this knowledge to other team members. Due to the war, Yulia had to terminate her contract with the programme and METALAB.

On the other hand, with the beginning of this phase of the war, our team was strengthened by professionals from other cities who relocated to Ivano-Frankivsk. Thus, together with members of the Kyiv-based NGO Urban Curators Nastya Ponomaryova and Varya Yahnysheva, and the founder of the Children's Architectural School Bohdan Volynskyi from Kharkiv, we started a new large project, CO-HATY, where our team improved and practiced their spatial and object design skills in relation to housing. Nastya and Varya stayed on to develop the project with METALAB. Bohdan Volynskyi bravely defends us serving in the Armed Forces of Ukraine. ❤️

Also, in 2022, some team members stepped into new roles, and some people joined as volunteers and became an integral part of the team, along with outsourced specialists, who have strength-

ened our capacity to deal with new challenges and the scope of work.

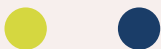
We are grateful to everyone who participated in our projects in 2022!

As of the beginning of 2023, the METALAB team has the following roles:





PART NERS



INSTITUTIONAL PARTNERS AND SUPPORT FOR THE NEW ECONOMY
OF IVANO-FRANKIVSK (NEF) PROJECT

INSTITUTIONAL PARTNERS AND SUPPORT FOR THE CO-HATY PROJECT

We are grateful to everyone who has supported CO-HATY at various stages with their expertise, partnership, materials, time, volunteering, projects, and humanitarian aid.

CO-FOUNDING PARTNER

Urban Curators — an independent agency and an interdisciplinary team from Kyiv that creates Space, Community, Identity and Dialog between them.

BUILDINGS PROVIDERS

- Ivano-Frankivsk National Technical University of Oil and Gas
- “Agropostach” LLC
- Department of Education and Science of Ivano-Frankivsk City Council
- State Educational Institution “Podilskyi Center of Professional Technical Education”

LOCAL AUTHORITIES PARTNERS

- Ivano-Frankivsk City Council
- Kamianets-Podilskyi City Council
- Ivano-Frankivsk Regional State Administration
- Khmelnytskyi Regional State Administration
- Department of Education and Science of Ivano-Frankivsk City Council

- Department of Education, Science, Youth, and Sports of Khmelnytskyi Regional State administration
- Department of Social Policy of the executive committee of Ivano-Frankivsk City Council

KEY DONORS OF THE PROJECT

Project “Ukraine Confidence Building Initiative” (UCBI III) funded by the United States Agency for International Development (USAID).

German Federal Foreign Office in partnership with humanitarian organization Sign of Hope.

International Organization for Migration (IOM) — leading intergovernmental organization dedicated to promoting humane and orderly migration for the benefit of all.

FINANCIAL AND MATERIAL SUPPORT

- IM Swedish Development Partner
- The George Pataki Leadership Center
- Danish Refugee Council
- Raumpioniere
- Charitable Foundation “Rokada”
- Charitable Foundation “Peace of Mine”
- “Polish Aid” Support Program
- “People in Need” Humanitarian Organization
- One of the banks of the United Kingdom
- MitOst

SUPPORT IN PROJECT IMPLEMENTATION

- Volunteer initiative “Second Home IF”
- New Housing Policy
- Peremebli
- Everlegal
- TOLOCAR
- Cadus
- Insha Osvita
- Building Ukraine Together (BUR)
- NGO “Critical Thinking”
- State Educational Institution “Podilskyi Center of Professional Technical Education”
- Ivano-Frankivsk Professional Construction Lyceum
- Parasolka Makerspace
- Anna Kuzyshyn, DUG and Hearts for Ukraine
- Ukrainische Engel
- Ro3kvit
- Izolyatsia Platform and New Democracy Fund
- Fundacja BRDA
- Association of Real Estate Specialists of Ivano-Frankivsk
- Ukrainian Emergency Art Fund
- Emergency grant Goethe-Institut
- Global Fund for Children
- Re-Win.ch Project

This year, METALAB experienced the power of crowdfunding for the first time, as the pilot of project CO-HATY was implemented solely on charitable donations, support with materials and interior items.

Funds for the project in different countries and communities were raised by: Mariia Val and her architect friends from Vienna, Help Ukraine Volunteers, Hoast Project and Anastasiya Yarovenko, Magdalena Filip, Spilka NYC, community of the Forest Grove Baptist Church, VA, USA, Liberation Kilt Co.

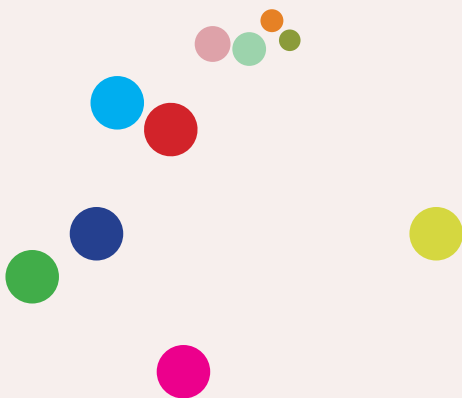
We are also grateful to all the people and teams who personally donated funds to support the CO-HATY project during 2022.

INSTITUTIONAL PARTNERS AND SUPPORT FOR THE NEW ECONOMY OF IVANO-FRANKIVSK (NEF) PROJECT

Our partners in the project are: Executive Committee of Ivano-Frankivsk City Council, Prompylad.Renovation innovation center, PPV Knowledge Networks economic development agency, and Teple Misto platform.

Funding is provided under the Mayors for Economic Growth program of the European Union.

FINA NCE

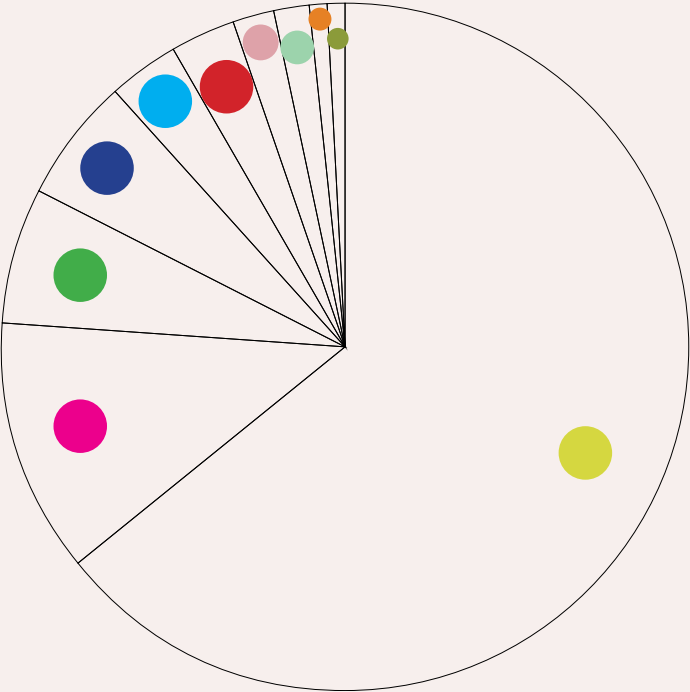


EXPENSES

INCOMES

<div></div>	SIGN OF HOPE	22 417 053 UAH
<div></div>	EU	4 172 781 UAH
<div></div>	UCBI	2 233 320 UAH
<div></div>	CORPORATE DONATION	2 030 090 UAH
<div></div>	IM SWEDISH DEVELOPMENT PARTNER	1 138 289 UAH
<div></div>	CHARITABLE DONATION	1 029 810 UAH
<div></div>	GEORGE PATAKI LEADERSHIP CENTER	731 373 UAH
<div></div>	UKRAINIAN EDUCATION PLATFORM	585 200 UAH
<div></div>	MITOST	319 985 UAH
<div></div>	“PEACE OF MINE” CHARITABLE FOUNDATION	200 182 UAH

TOTAL	34 858 083 UAH
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EXPENSES

BUILDING MATERIALS	11 607 180,12 UAH
RENOVATION CONTRACTORS	9 764 924,6 UAH
FURNITURE, WINDOWS, ETC.	2 789 243,11 UAH
FEES AND SALARIES	1 614 371,36 UAH
INTERIOR DECORATION AND BATHROOMS	740 745,52 UAH
EQUIPMENT	585 146,69 UAH
ROOF REPAIRS	475 672,76 UAH
ACCOUNTING SUPPORT	330 649,29 UAH
MEALS	308 550,25 UAH
EXPERT SERVICES	305 760,35 UAH
INCOME TAXES FOR PERSONNEL	166 423,41 UAH
EVENT ORGANIZATION	139 820,97 UAH
CONSULTING SERVICES	88 821,36 UAH
BANK EXPENSES	88 518,57 UAH
RENT	74 400,14 UAH
UTILITIES	26 854,8 UAH
DIGITAL SERVICES	22 000,0 UAH
ADVERTISING SERVICES	18 037,5 UAH
CONSUMABLES	11 461,48 UAH
OFFICE EXPENSES	10 916,0 UAH
OTHER	114 457,38 UAH
TOTAL	29 283 955,66 UAH

