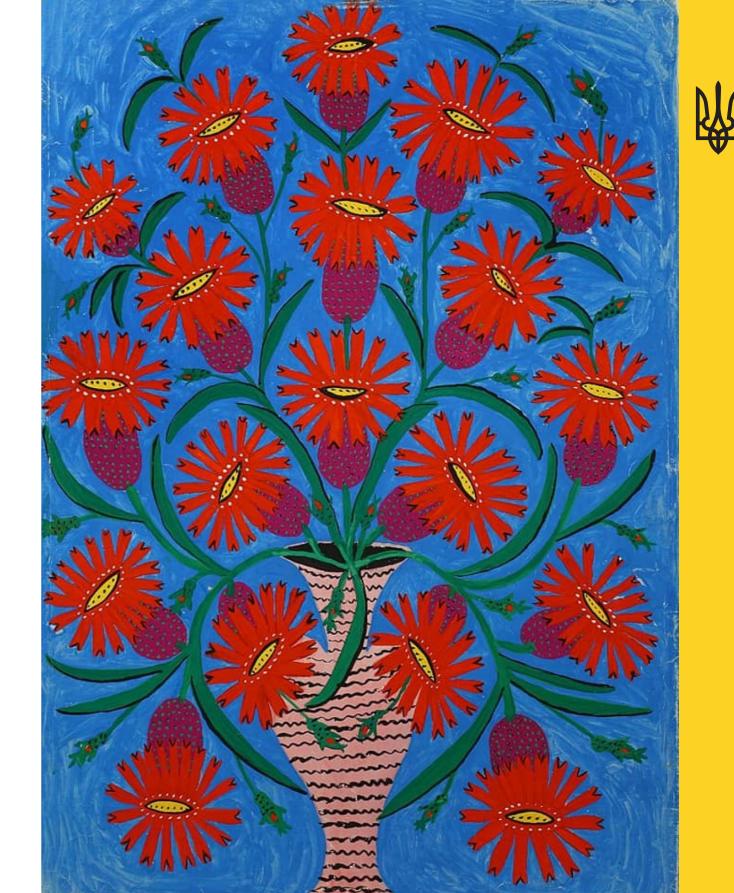


GREEN RESTORATION OF UKRAINE

Oleksandra AZARKHINA,
Deputy Minister for Communities, Territories
and Infrastructure Development of Ukraine

Painting by Maria Prymachenko (1909-1997)





PROBLEMS FACED

BY UKRAINE

Building damaged by a russian S-300 missile in Kharkiv





INTENSIVE MIGRATION PROCESSES



8.1 million people

were displaced across Europe (UNHCR, February 2023)



5.4 million people

were internally displaced within Ukraine with protracted (more than 6 month) displacement prevalent (IOM, January 2023)





Crowds of refugees from Mariupol, Ukraine (March 24, 2022) Kharkiv

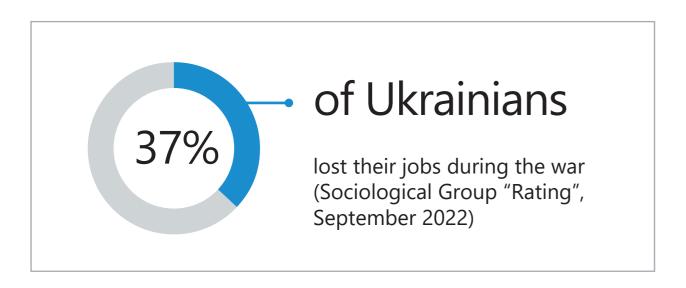
BUSINESS RELOCATION AND JOB LOSSES

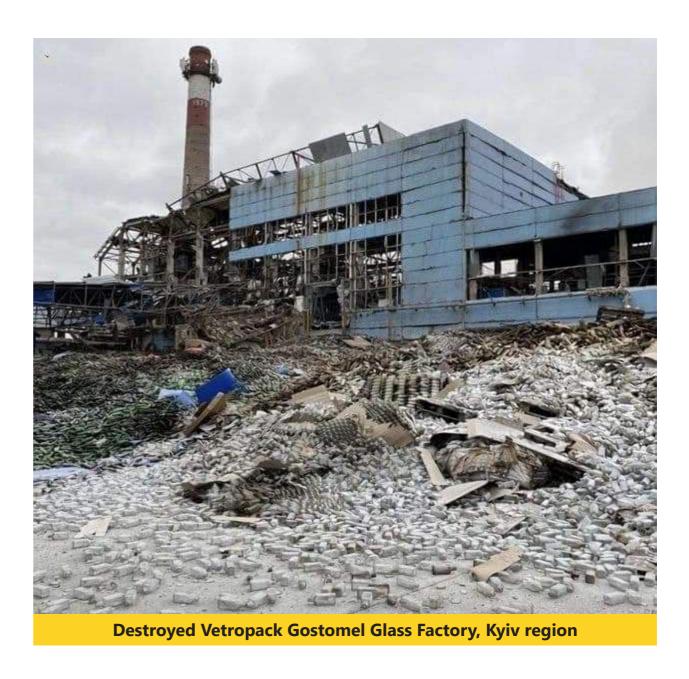


more than 700 enterprises

were forced to move to the western regions, only according to official data (Ministry of Reintegration, December 2022)





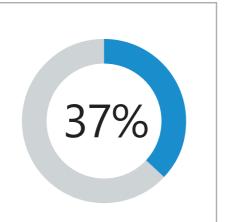


LARGE-SCALE DESTRUCTION OF RESIDENTIAL, SOCIAL AND ECONOMIC INFRASTRUCTURE



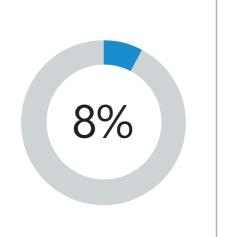
Housing represents

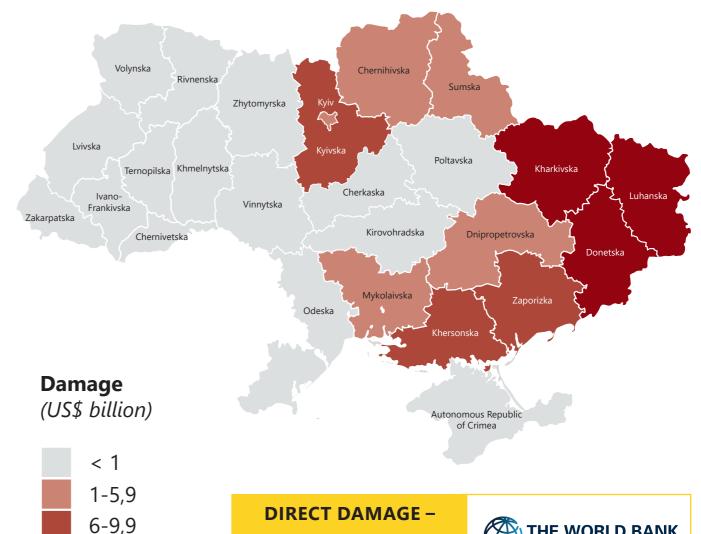
of total damage, including more than **1.4 mln** housing units affected; with **1/3** destroyed of these beyond repair (WB, March 2023)



Commerce and industry represent

of total damage, including both private and publicly-owned enterprises (WB, March 2023)





\$135 BLN

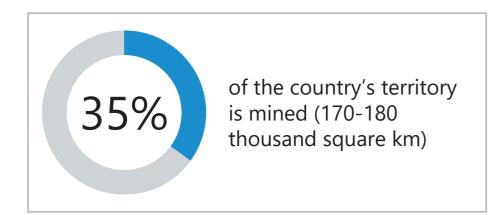
> 10

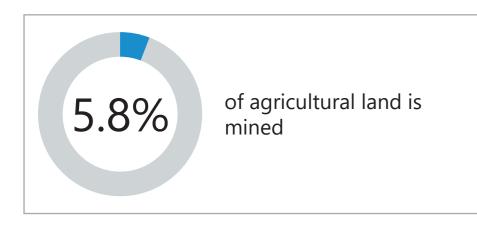


MINED TERRITORIES

UKRAINE IS THE MOST MINED COUNTRY IN THE WORLD

In total, an area 4,5 times the size of Switzerland has been mined in Ukraine











THE GOAL: TO RETURN UKRAINIANS HOME





ECO-ORIENTED FOCUS

Demining of territories



Reduction of pollution of territories and their restoration

Provision of basic services



Implementation of environmentally friendly methods of heat supply, modernization of water supply and purification systems

Protection of critical infrastructure



Development of regional decentralized sources of co-energy generation

Housing reconstruction and construction



Energy-efficient and inclusive solutions, implementation of circular economy principles, recycling of building materials

Returning economic activity to communities

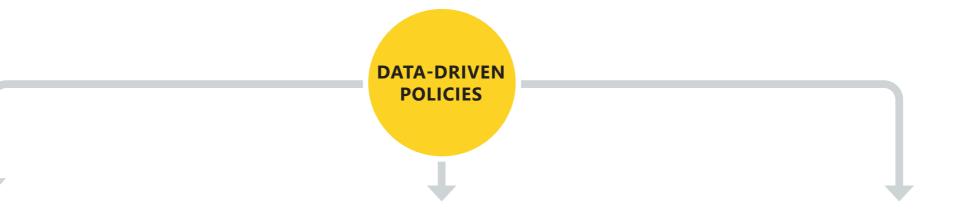


Provision of support at the state level for private business that works with sustainable green solutions, reorientation of the infrastructure market to modern standards in the field of environmental management

BASIS: DATA-DRIVEN POLICIES

DIGITALIZATION OF GREEN SOLUTIONS





RDDP

Register of damaged and destroyed property

TASK: to form a single official source of destruction data. In the future, these data will be used to substantiate the reparations that Ukraine will demand from the Russian Federation.



Assessment of needs for building materials

DREAM

Digital restoration ecosystem for accountable management

TASK: to create a single digital pipeline for reconstruction projects and ensures transparent and effective implementation of the projects at the national, regional and local levels



Mechanisms for stimulating projects based on green solutions

Geoinformation system (GiS)



TASK: to monitor situations in communities, data-based business support tools.

Principles of sustainable development in state regional policy

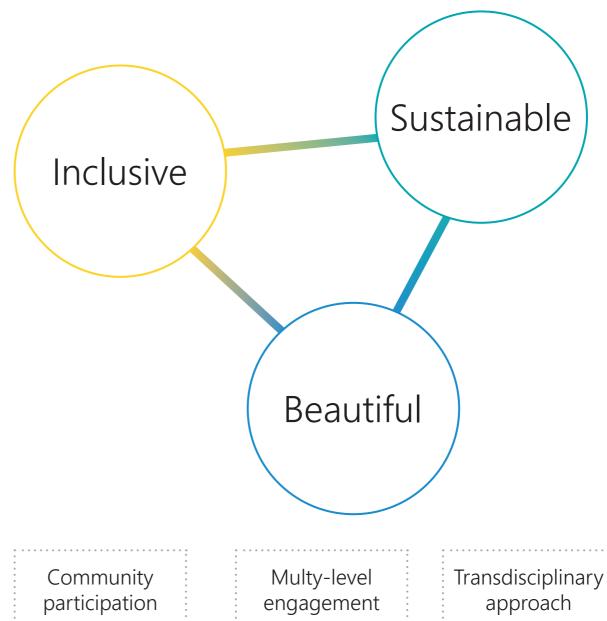
CIRCULAR ECONOMY PRINCIPLES





Goal: to increase the number of projects that will meet the principles of New European **Bauhaus Compass**

- > use of financial instruments to encourage developers to use green and circular technologies
- informational support and promotion of green and circular construction projects among people who will choose new housing as compensation



NEW STANDARDS OF ENERGY EFFICIENCY AND INCLUSIVENESS



HOUSING



All new buildings will meet the new requirements for energy efficiency

legislative requirements for energy efficiency have been improved and will be reviewed systematically

Goal: to reach EU standards and requirements

SOCIAL INFRASTRUCTURE



New requirements for inclusiveness

- new norms regarding the inclusion of all new buildings
- inclusive social infrastructure buildings
- inclusive public space
- new requirements for fire safety and evacuation schemes of buildings

GREEN AND AUTONOMOUS ENERGY SOLUTIONS

- Decentralization of the energy system and risk diversification
- > Use of modern eco-oriented solutions
- > Attracting investments in strengthening the capacities of communities
- Higher quality and lower price of energy services for the population



Kamianets-Podilsky thermal power station (Khmelnytskyi region)

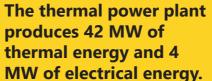
TYPES OF GENERATION

Biomass energy generation

Waste to energy

Small hydro generation

Geothermal electric and thermal plants







COMMUNITY-LED RESTORATION



Platform for communities



TASK: to create for communities a platform for project pitching and direct coordination with state bodies and donors.



Recovery plans

Local governments are developing recovery plans by July 2023 to adapt their strategies to wartime realities.

State strategy of regional development of Ukraine



TASK: to develop a new version of the strategy based on current data about regions and communities, their challenges and problems. State regional policy is becoming more community-led

COMMUNITY-LED RESTORATION



Fund for liquidation of the consequences of military aggression

TASK: to stabilize the situation in the country (civil protection, provision of basic public utility services, housing, protection of critical infrastructure)





Project prioritization methodology



TASK: to prioritize amongst various infrastructure projects following a sound methodology and decision-making process, which will be well-recognized by partners, including the European Union (EU), IFIs and donors