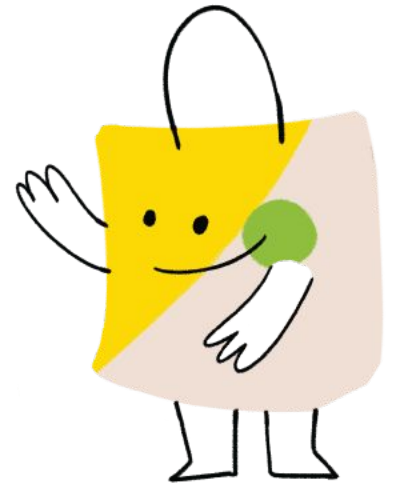


Organic waste management in Lviv story

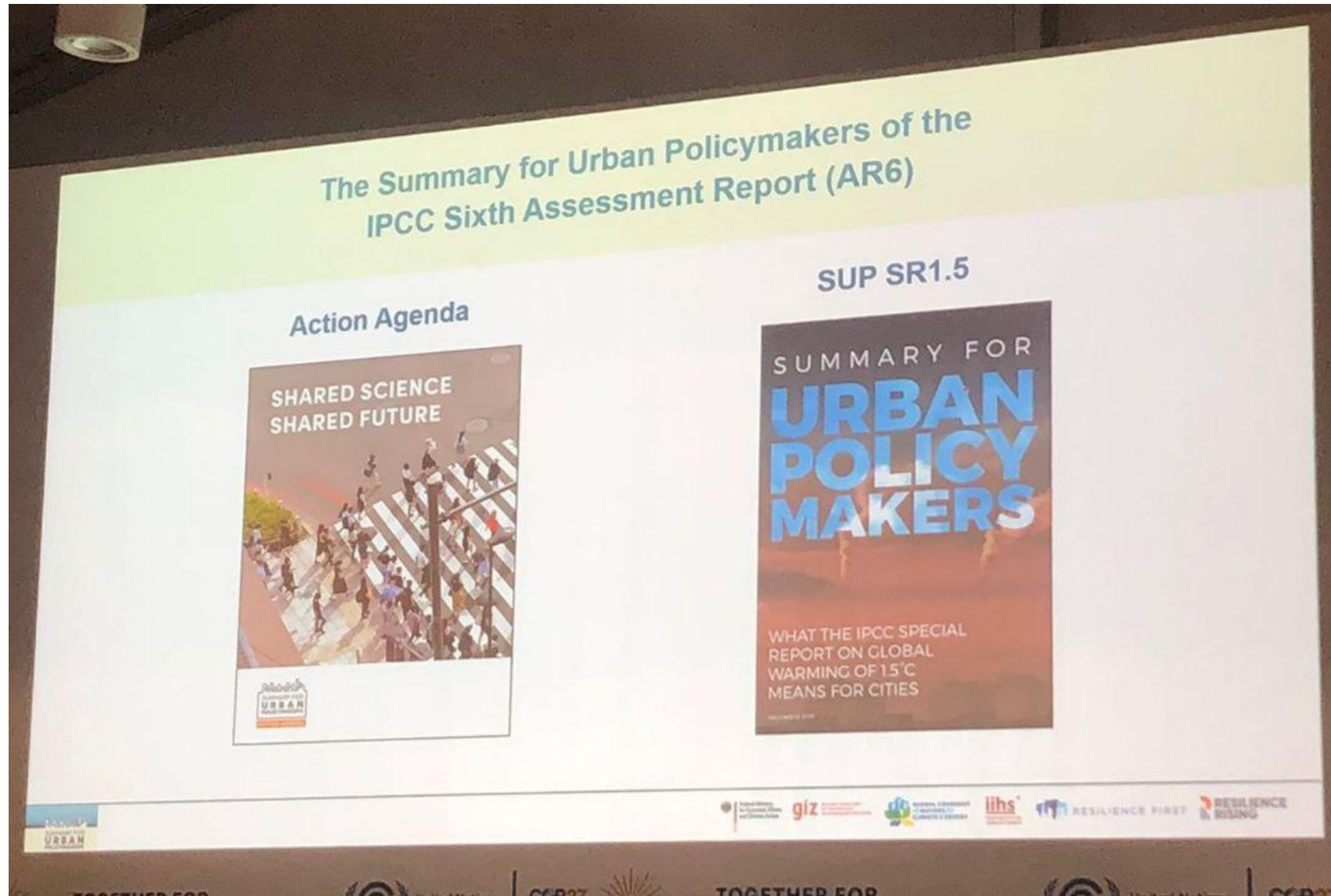
Iryna Myronova

Executive director of Zero Waste Lviv

Zero Waste Alliance Ukraine



Good news from CoP27



There are multiple feasible mitigation options and synergies between mitigation action and sustainable development across key urban sectors and approaches.

Mitigation Response Options		Overall Feasibility	Relation with Sustainable Development Goals														
			1	2	3	4	5	6	7	8	9	10	11	12	14	15	
Energy	Solar Energy	●	+	★	+			★	+	+	+		+	★		★	
	Wind energy	●	+	★	+			+	+	+	+		+	★	★	★	
	Geothermal	●	+					+	+	+	+		+		★	★	
	Energy storage for low-carbon grids	●	+		★			★	+		+		+				
	Demand side mitigation	●															
	System integration	●	+	+	+		+	+	★	★	+	+	+				
Urban	Urban land use and spatial planning	●	+	★	+	+	+	+	+	+	+	+	★	+	★	★	
	Electrification of the urban energy system	●	+	★	+	+	+	+	+	+	+	+	+	★	+	★	
	District heating and cooling networks	●	+	★	+	+	+	+	+	+	+	+	+	★	+	★	
	Urban green and blue infrastructure	●	+	★	+	+			+	+	+	+	+	+	+	★	
	Waste prevention, minimization and management	●	+	+	+	+		+	+	+	+	+	★	+	+	+	
	Integrating sectors, strategies and innovations	●	+	+	★			+			★	+				+	
Building	Building design and performance	●	+	+	+			+	+	★		+	+	+		+	
	Change in construction methods and circular economy	●			+			★	+	★	+		+	+		+	
	Envelope improvement	●	★	+	★	+		+	+	★	★	★	+	+			
	Heating, ventilation and air conditioning (HVAC)	●	★	+	+			+	+		★	★	+	+			
	Efficient Appliances	●	★	+	+	+	+	+	+	★	—	★	+	★		+	
	Change in construction materials	●	★	+	+	+	+	+	+	★	+	★	+	★		+	
	Demand Side management (active management operation, digitalization and flexible comfort requirements)	●	★	★	+	+	+	★	★	★	★	★	★	+	+	+	
	Renewable energy production	●	+		★	+	+		+	+	+	+	+	+	+		
Transport	Demand reduction and mode shift	●	+		+	+	+		+	+	★	+	+	+			
	Biofuels for land transport, aviation, and shipping	●		★	★				+	+	+		+		★	★	
	Electric vehicles for land transport	●					★			★	+	+	★	+	+	★	

+

★

Blanks represent no assessment

Overall Feasibility

● High
● Medium
● Low

Figure Source: Derived from IPCC AR6 WGIII, Summary for Policymakers, SPM.8

Federal Ministry
for Economic Affairs
and Climate Action

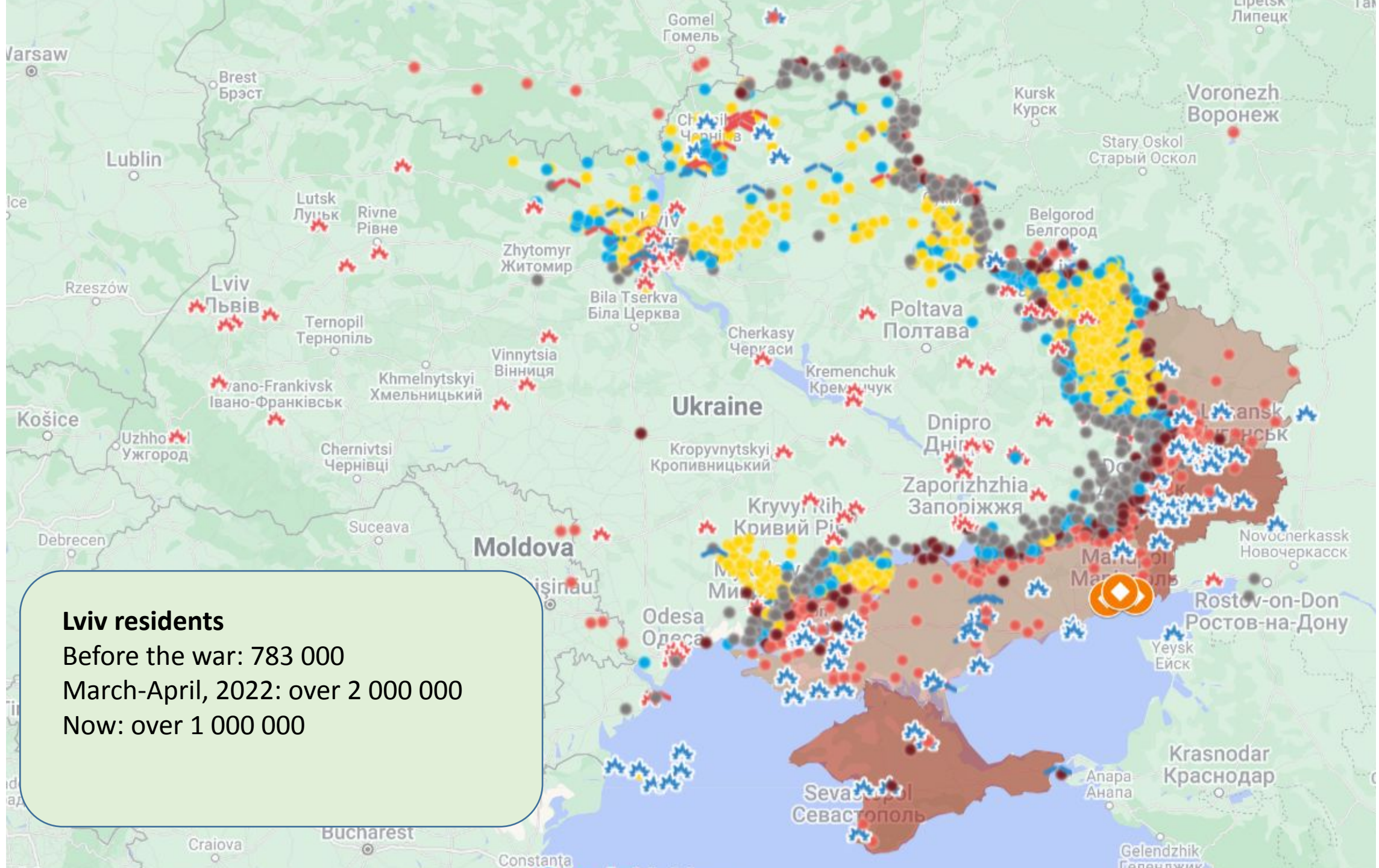
giz

GLOBAL GOVERNANCE
OF MARKETS FOR
CLIMATE & ENERGY

lihs

RESILIENCE FIRST

RESILIENCE
RISING



Lviv residents

Before the war: 783 000

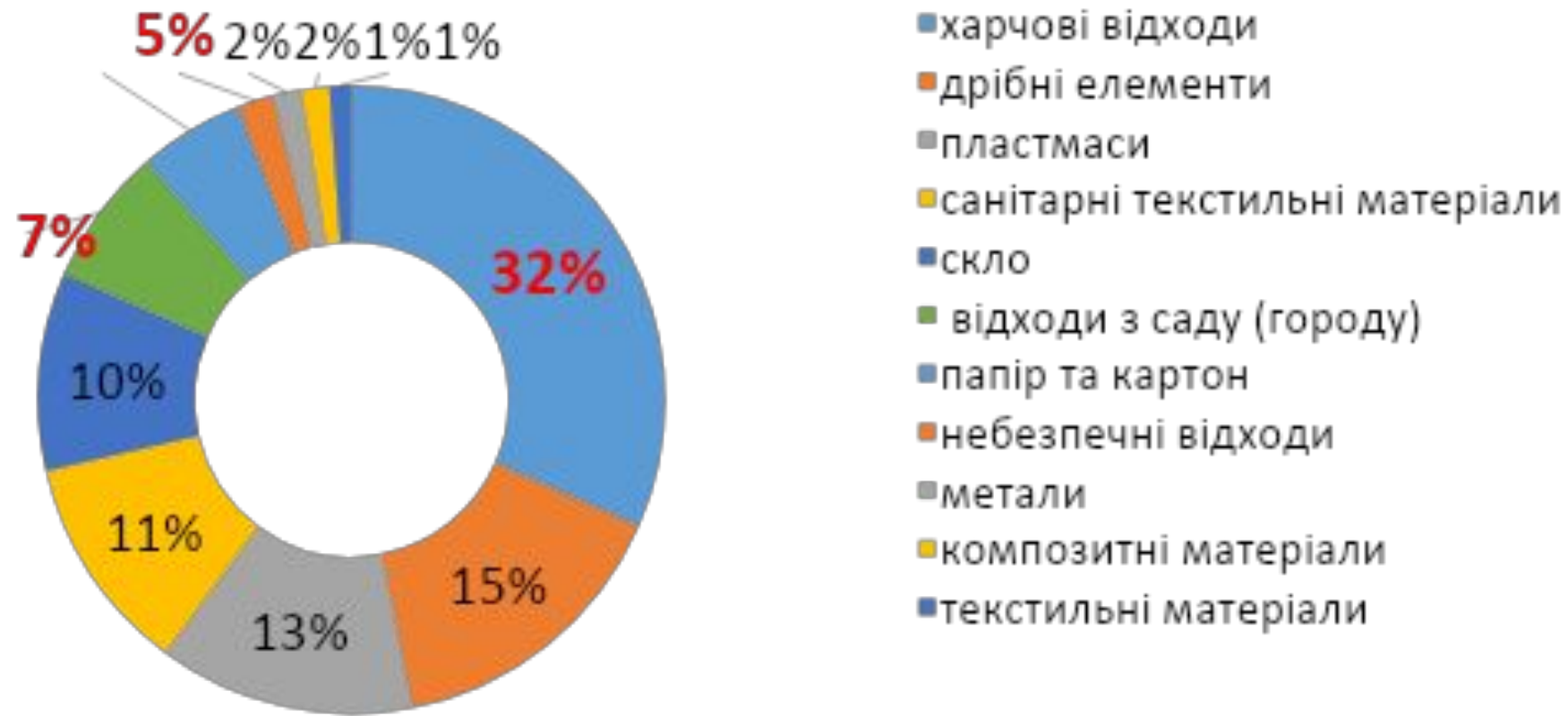
March-April, 2022: over 2 000 000

Now: over 1 000 000

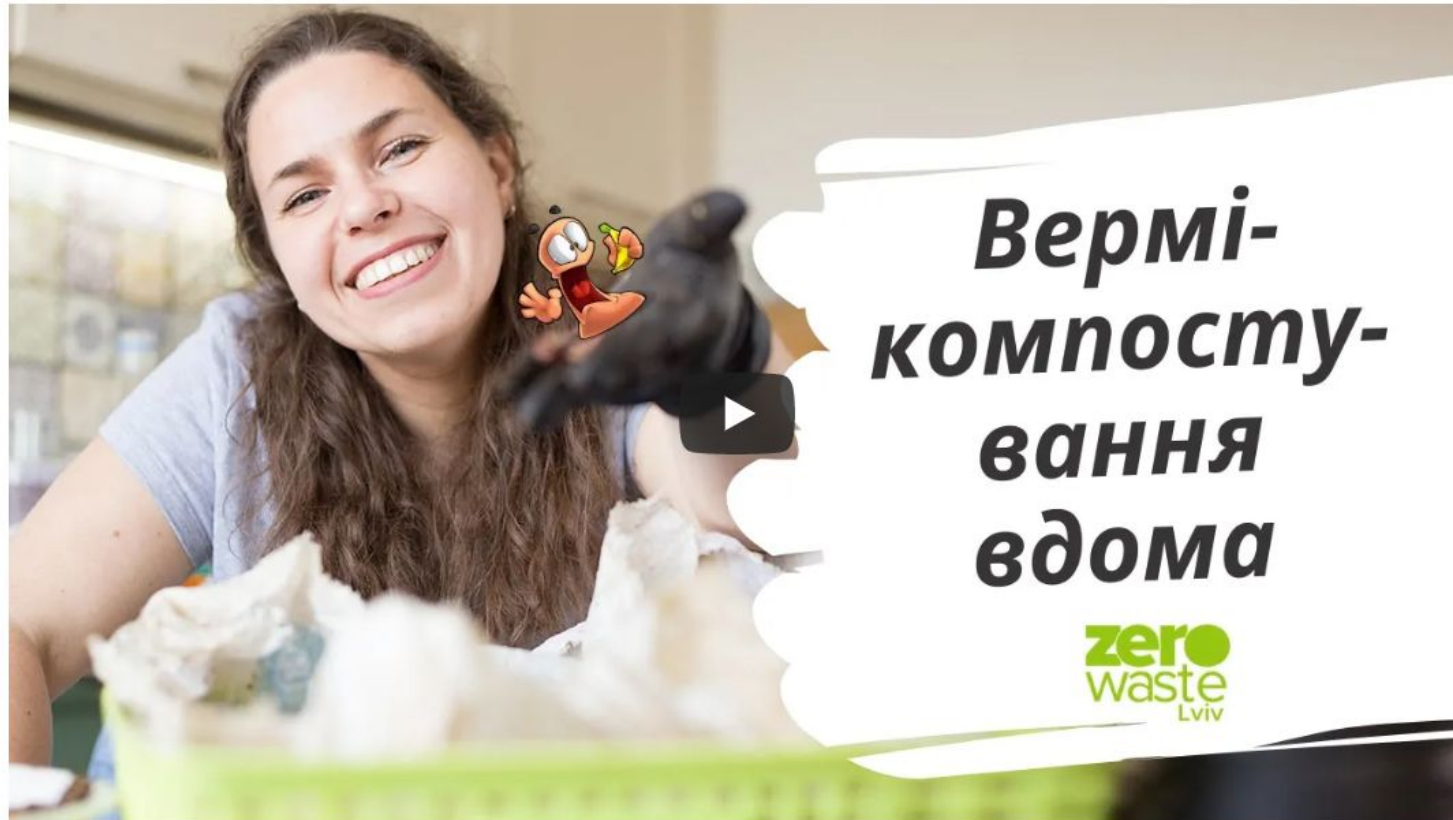


June 2016 Landfill fire, which led to closure of the landfill

Morphology of residential mixed waste in Lviv, 2017



Individual composting: scare people that they will have to live with worms in their apartments



Основи вермікомпостування вдома з Ірою



Zero Waste Lviv
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Reusable tableware in
"Boikivska Gostvna" restaurant...



‘People will never ever separate organics’ – they said...



2019: Pilot project of decentralized composting with 4 condominiums, Funded by Lviv City Council

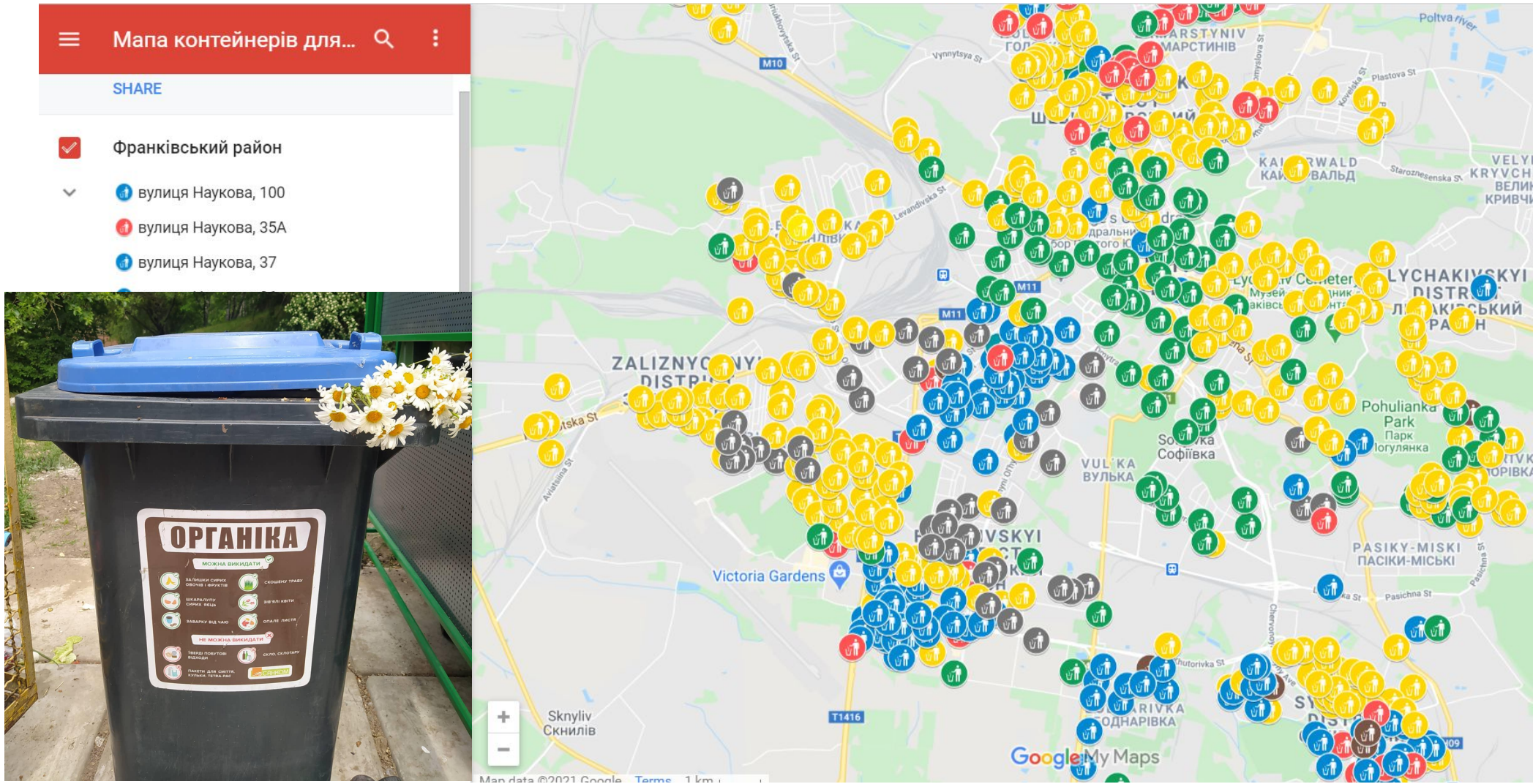
Today more than 70 composters around the city



Centralized composting: way to go



City wide collection from residents: 98% covered by the end of 2021



Municipal composting station for green and kitchen waste from citizens and businesses



Green waste deposit and composting



Self delivered organic waste from markets



Organic waste from the restaurants



Municipal company reports the results monthly: Results for April 2022



Challenges ahead:

- How to scale up the collection and processing
- No bags / plastic bags / biodegradable bags trilemma
- Tariff for organic waste collection
- Quality of the service by all 5 waste transport companies
- Collection from HoReCa in the city center

Challenges to overcome



Thank you!

Iryna Myronova

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