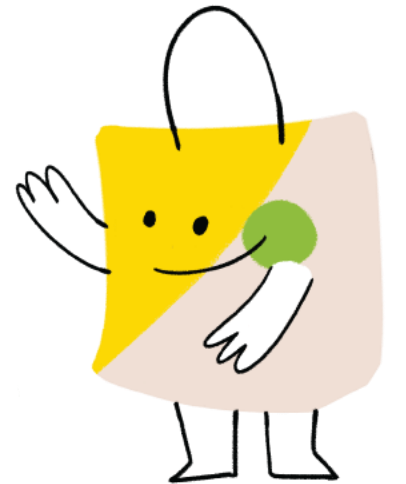


Zero waste Lviv And the war comes...

Iryna Myronova

Executive director of Zero Waste Lviv,
Zero Waste Alliance Ukraine





June 2016 Landfill fire, which led to closure of the landfill
Jan-June 2017 Politically induced waste crises in Lviv

Lviv as Zero waste case for Ukraine and the world



Key statistics (2021)

- Population: 783,065
- Total municipal solid waste generation: 238,965.63 tonnes/year
- Per capita waste generation: 0.84 kg/day
- Waste collection: 11% separation collection
- Waste diversion rate: 11%

@Max Bashyrov

[State of Zero Waste Cities report \(2020\)](#)

[Zero Waste to Zero Emissions \(2022\)](#)

[Zero Waste Lviv](#)

On it's way to Zero Waste City since 2020:

Separate collection of organics since 2020

Sporadic curbside separate collection of plastic and glass bottles

Separate collection of textile for reuse led by NGO Emaus Oselia

Separate collection of batteries and fluorescent lamps, pilots on medical waste

Waste prevention

Zero Cup – reusable coffee-to go service

Drinking water fountains

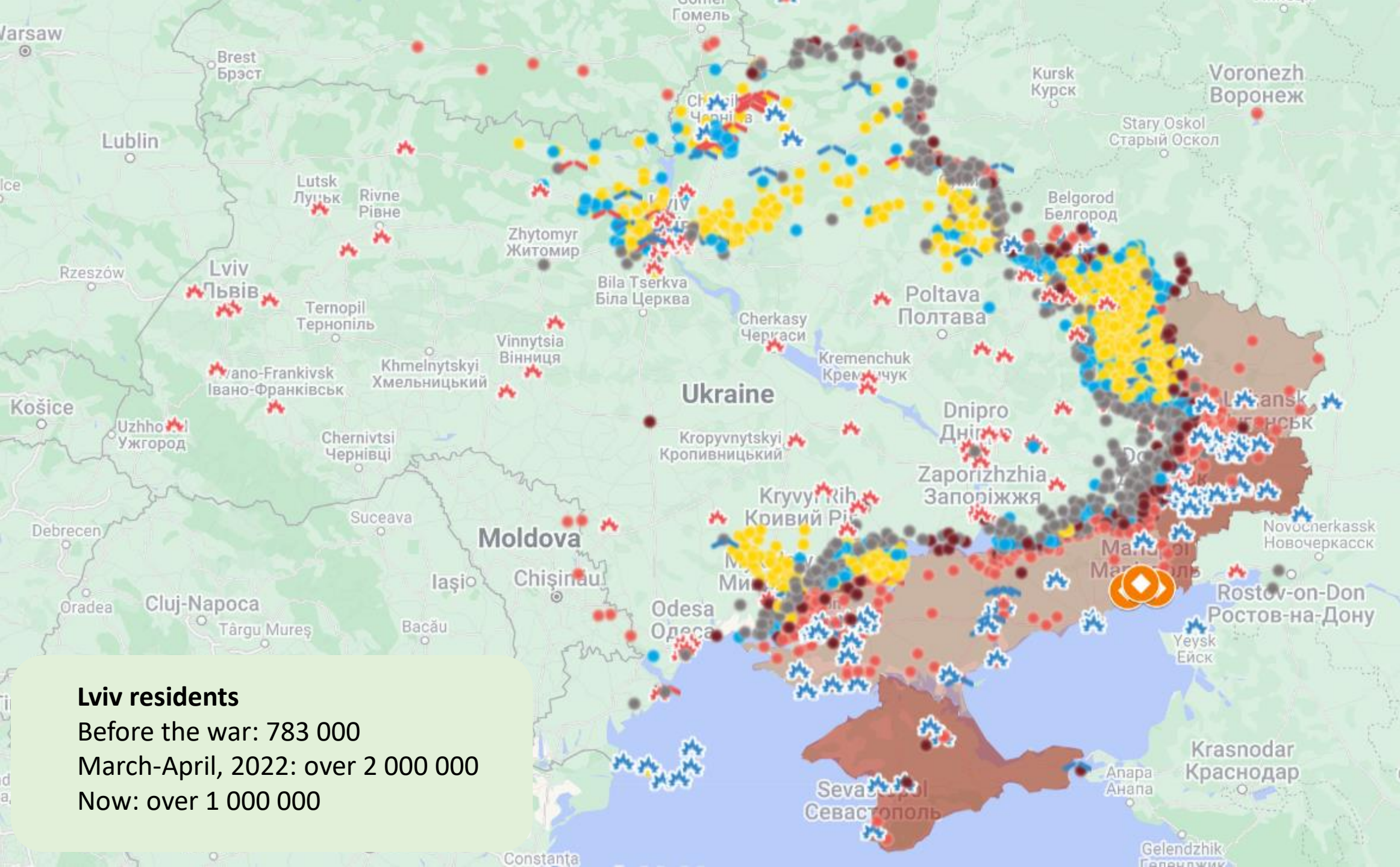
Plastic bag ban campaigns

Popularization of reusable menstrual and nappy products

Single use prevention from restaurants

Numerous **waste morphology** studies





Lviv residents

Before the war: 783 000

March-April, 2022: over 2 000 000

Now: over 1 000 000



Lviv Railway station in March 2022



Around 5000 refugees moved through the Lviv railway station daily.

Drinks, food, waste...



Drinks, Food, Reusable kitchenware



Reusable menstrual products and nappies



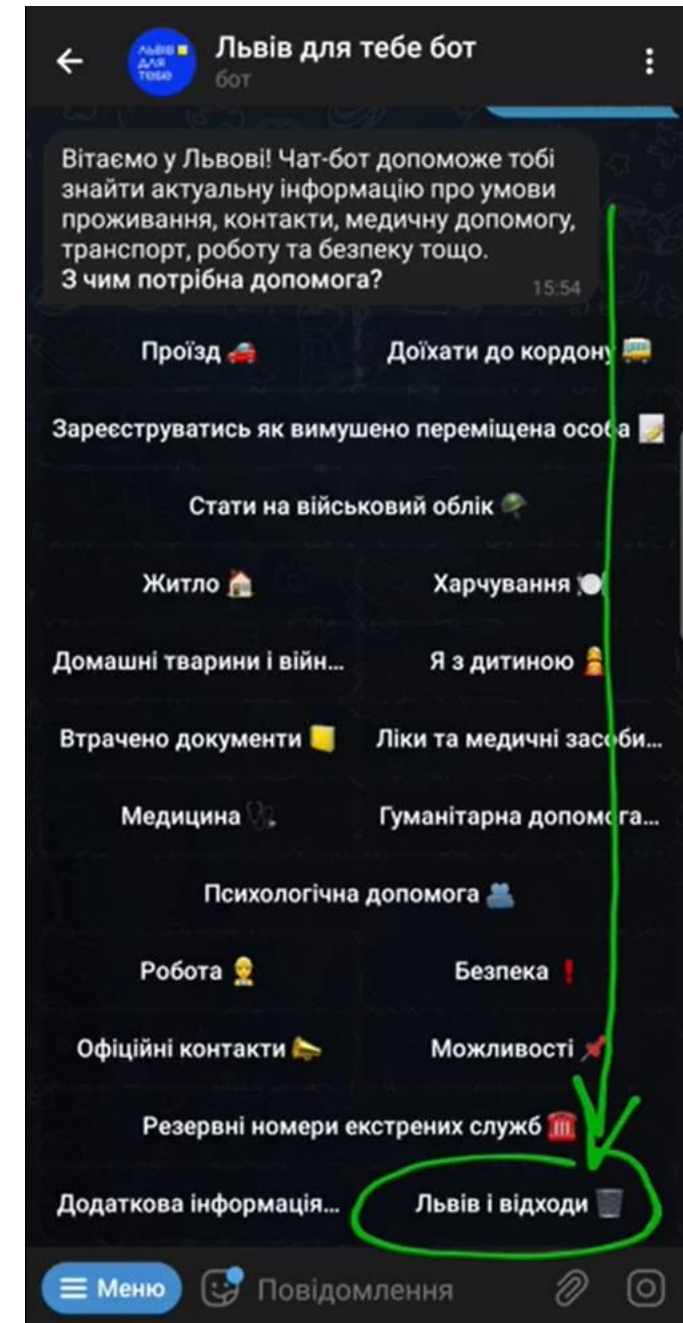
6 lectures and over 500
menstrual products distributed
Reusable nappy rent pilot

Let's have some fun and recycle in the park



Chat with refugees about waste management

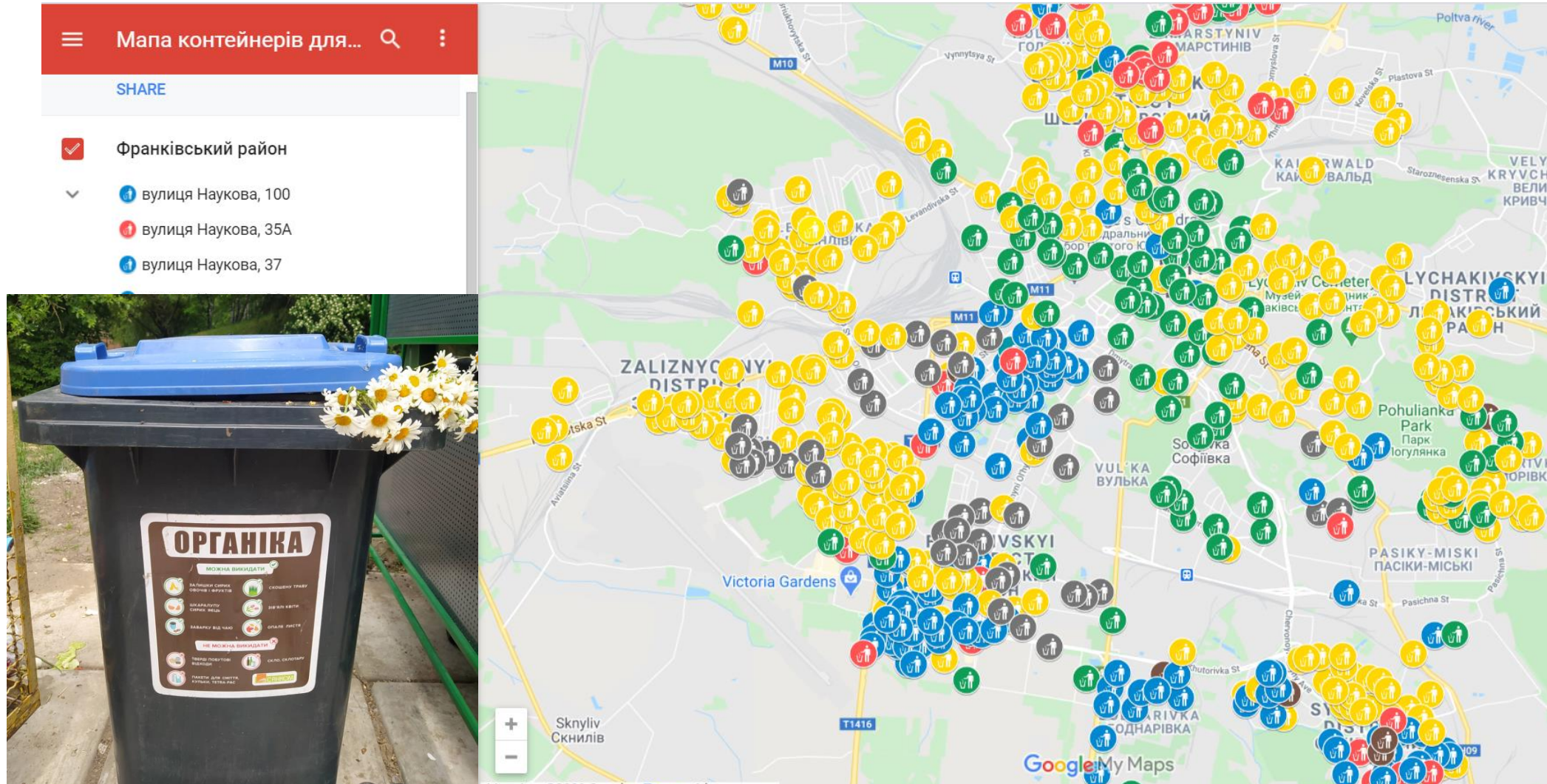
- We put together all the information about waste separation and prevention options, such as:
 - How to separate organic waste
 - Where to bring batteries
 - What recycling options are in the city
 - Where to get menstrual cups and pads
 - Where there are discounts for coffee in your cup
 - Where to get second-hand goods
 - Water fountains and tap water quality



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



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



Biodegradable bags finally arrived



Organic waste from the restaurants





Municipal like waste of war

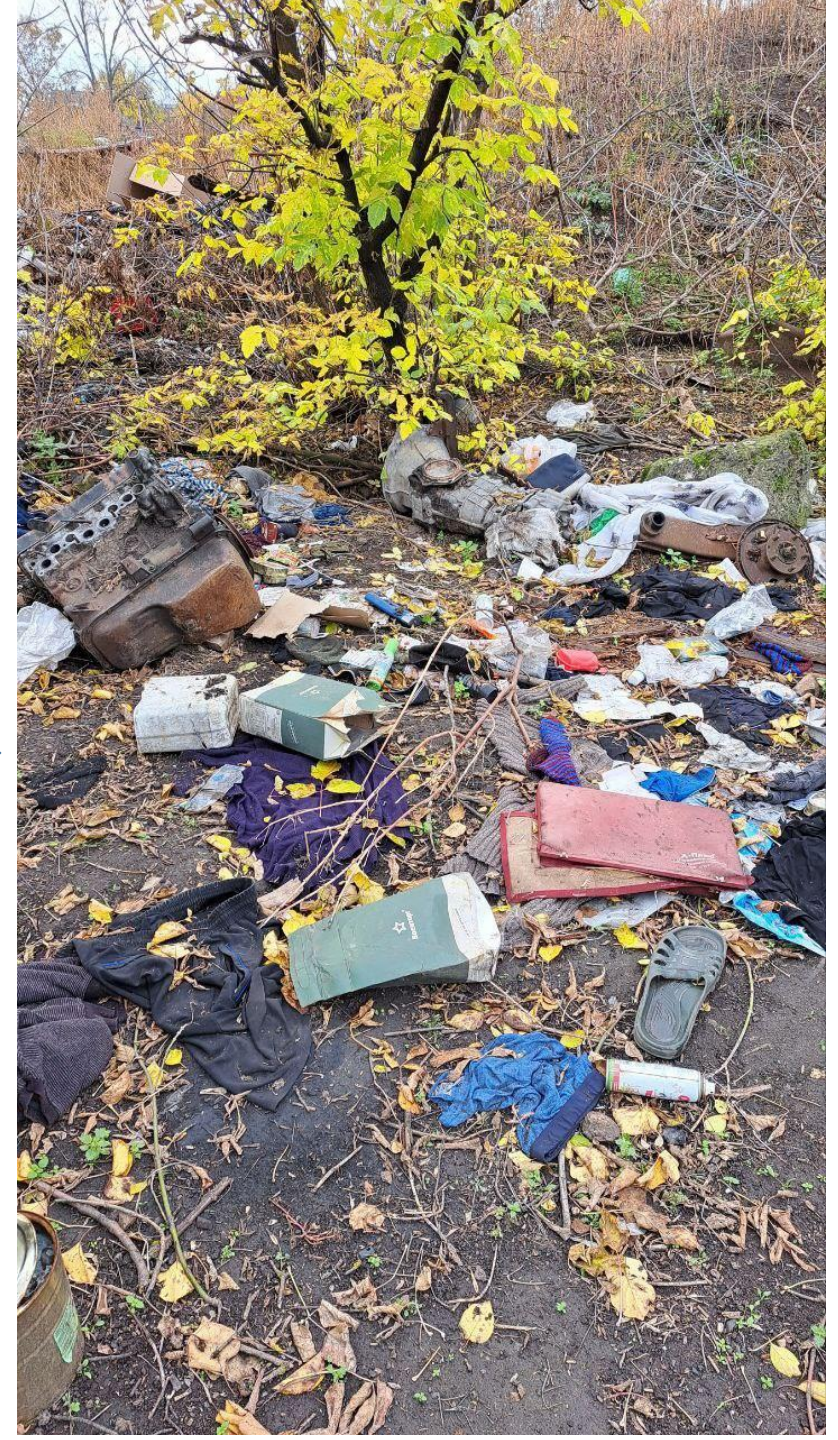
349 Day of war...

Hundred thousands of Russian combatants came and trash our land



The picture from the freed village in Kherson region.

We support our military with reusable camp ware



Are we ready to zero waste emergency response?

- How to provide humanitarian aid without burdening the recipient with not needed or unusable items.
- How to inform newcomers with the waste management rules
- How to provide food and drinks not causing mountains of waste
- How to clean up the forests

Zero waste city approach is adaptable

- Separate organic waste collection and composting
- Waste prevention programs
- Deposit - return schemes
- Reusables wherever possible
- Repair programs



Thank you!

Iryna Myronova

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