

# A Case Study of Humanitarian Aids to Ukraine During Russo-Ukrainian War: Efficiency, Effectiveness, and Equity

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## Introduction

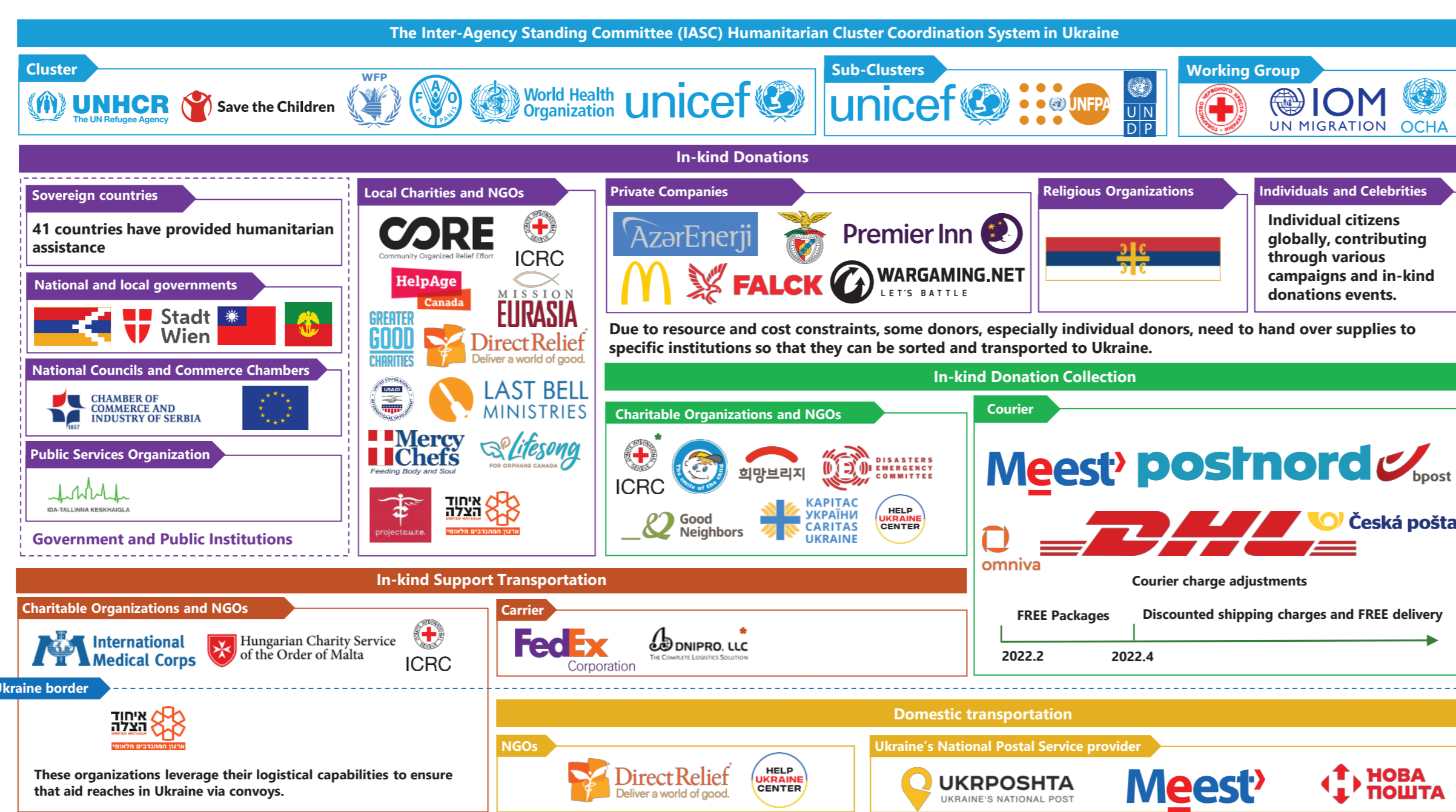
The Russo-Ukrainian War, which erupted on 24 February 2022, prompted over 6 million internally displaced people (IDPs) within the first month. Forced to flee to other oblasts, the IDPs faced shortages of shelter, food, and medical care. This study aims to analyze the efficiency, effectiveness, and equity of in-kind humanitarian aid donations to Ukraine during the crisis, identifying critical bottlenecks causing delays and scarcities in relief item delivery.

## Methodology

1. Qualitative research  
Interviews, Literature review, Online resource review.
2. Quantitative analysis  
Regression analysis, NLP analysis.

## Result

International Humanitarian Aid Efficiency



Humanitarian Aid Allocation Effectiveness

Fig.1 Mapping of Humanitarian In-Kind Donations to Ukraine<sup>[1][2]</sup>

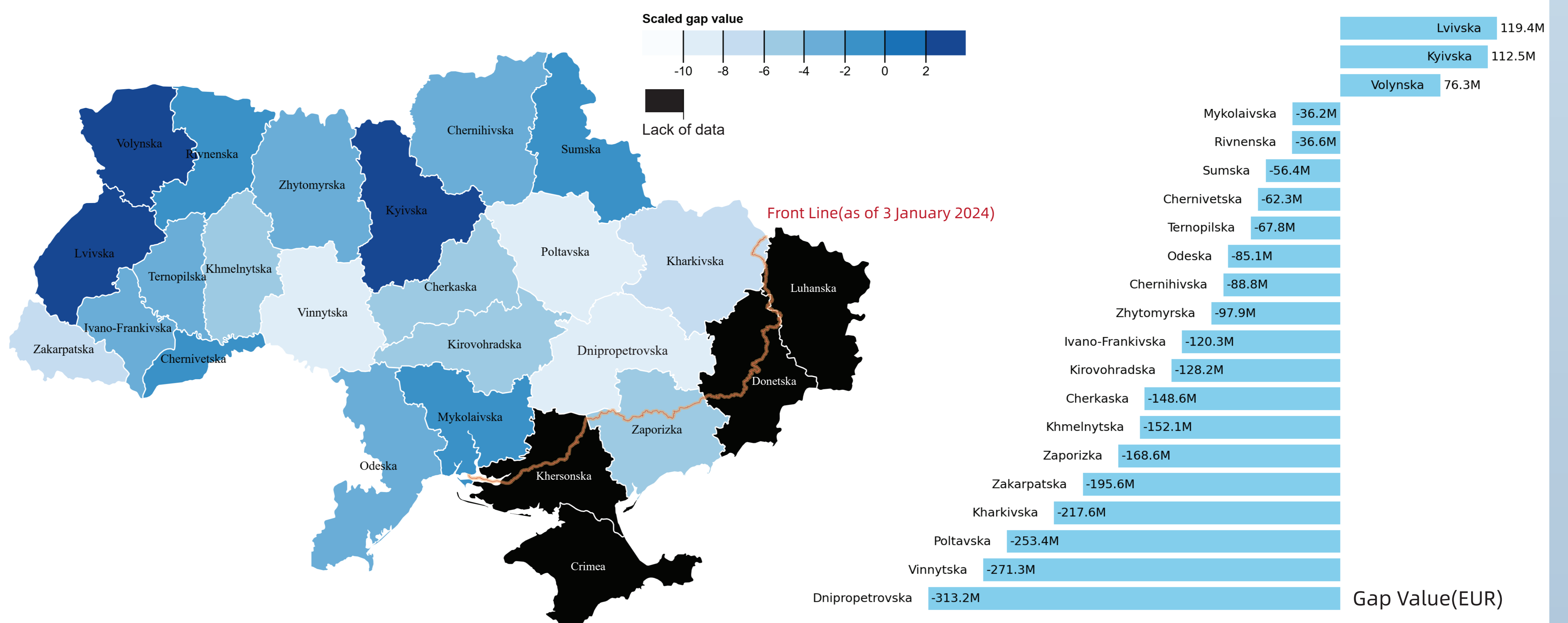


Fig.2 Ukraine Choropleth Map of Gap Value in relief supplies (Supplies - Needs)

Media Attention and People in Need (PIN)

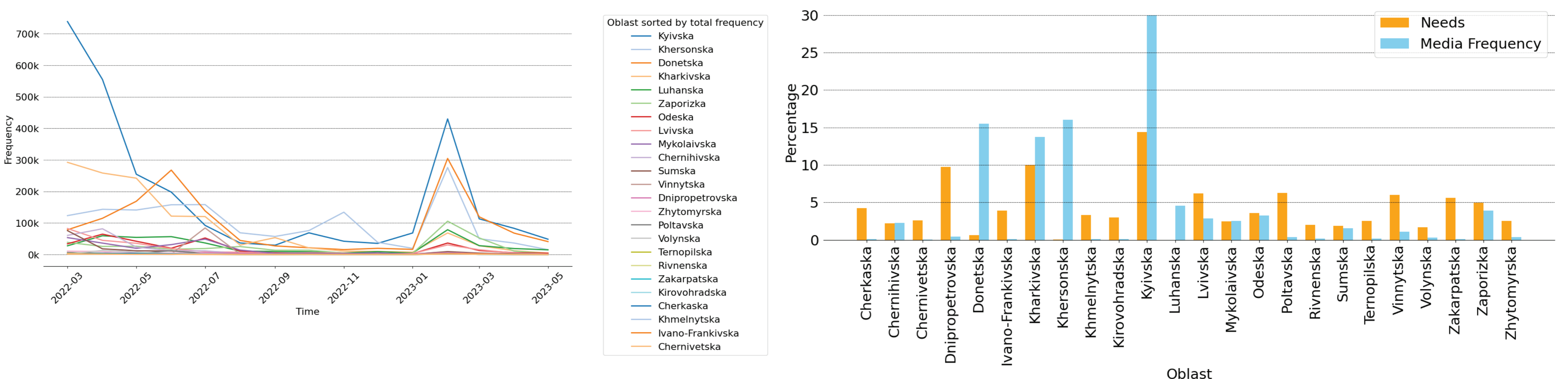


Fig.3 Oblasts Name Frequency Over Time

Fig.4 Comparison of Percentages between Media Attention and PIN

## Conclusion

1. With various institutions involved in Ukraine's humanitarian aid efforts, diversifying border options, such as the use of postal packages, could enhance the efficiency of international aid delivery.
2. A mismatch between relief supplies and needs persists, with most oblasts under-served and some oversupplied.
3. Oblasts with high demand for supplies but no active conflict require more attention.

## Reference

- [1] Piotrowicz, W. D., "In-kind donations, cash transfers and local procurement in the logistics of caring for internally displaced persons: The case of Polish humanitarian NGOs and Ukrainian IDPs," *Journal of Humanitarian Logistics and Supply Chain Management*, vol. 8, no. 3, pp. 374-397, 2018.
- [2] Konrad, R., Sorokotyaha, S., and Walker, D., "Humanitarian response by grassroots associations during a military conflict," *Journal of Humanitarian Logistics and Supply Chain Management*, vol. 14, no. 2, pp. 140-159, 2024.