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***It is simple. Less hazardous waste means safer and healthier people, and a cleaner environment.***

# *Capital Cities Collaborating on Common Challenges in Hazardous Waste Management*

## *Yerevan, Warsaw, Tirana*



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## **BASELINE STUDY ON HAZARDOUS WASTE MANAGEMENT IN YEREVAN, WARSAW AND TIRANA**

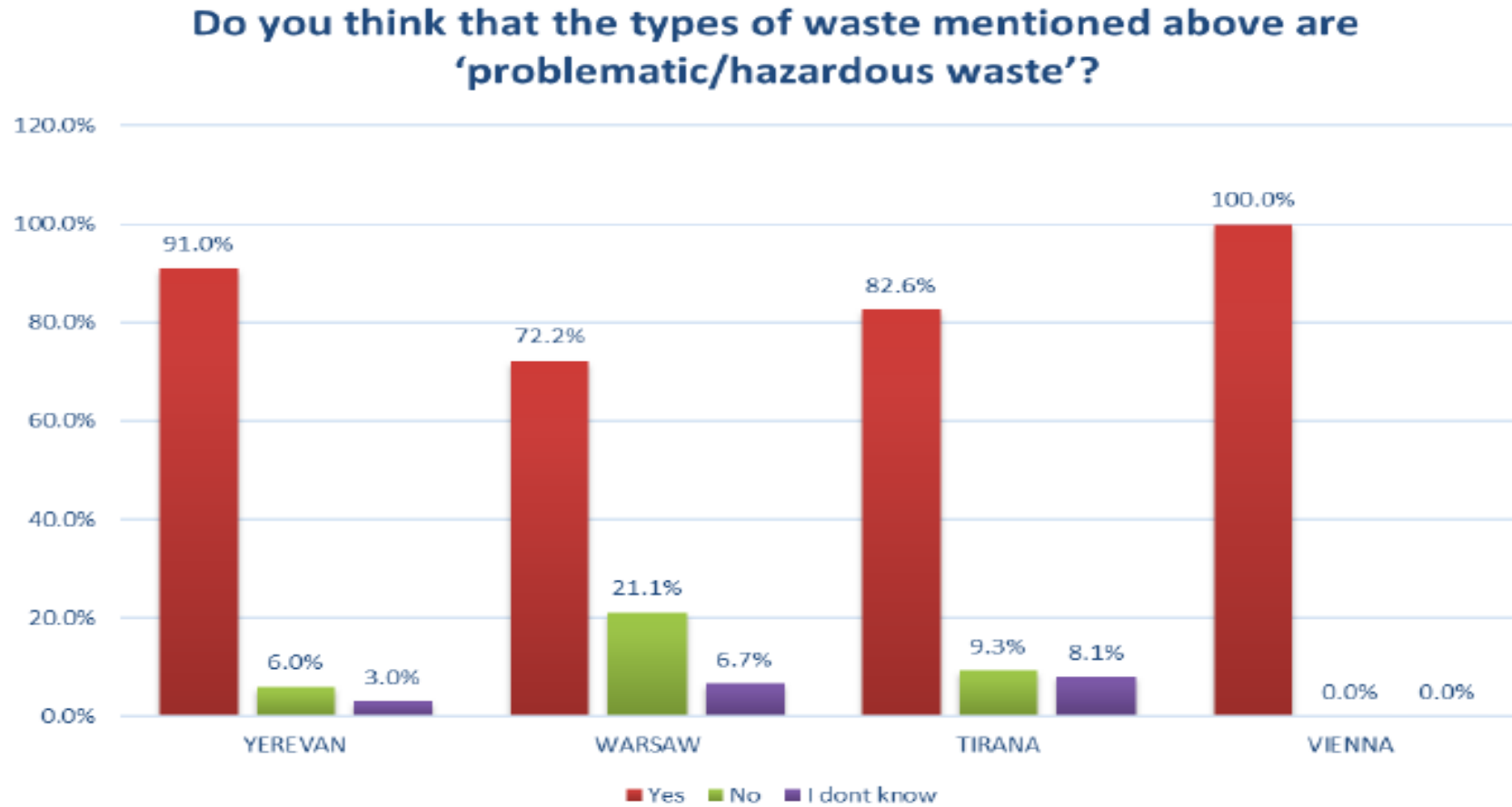
### **- RESULTS, FINDINGS & RECOMMENDATIONS**

**Place and date: Yerevan - 17.11.2021, Tirana – 01.12.2021, Warsaw – 08.12.2021**

**Authors: Santiago Casillas, Expert in Local Governance and Policy Mainstreaming**

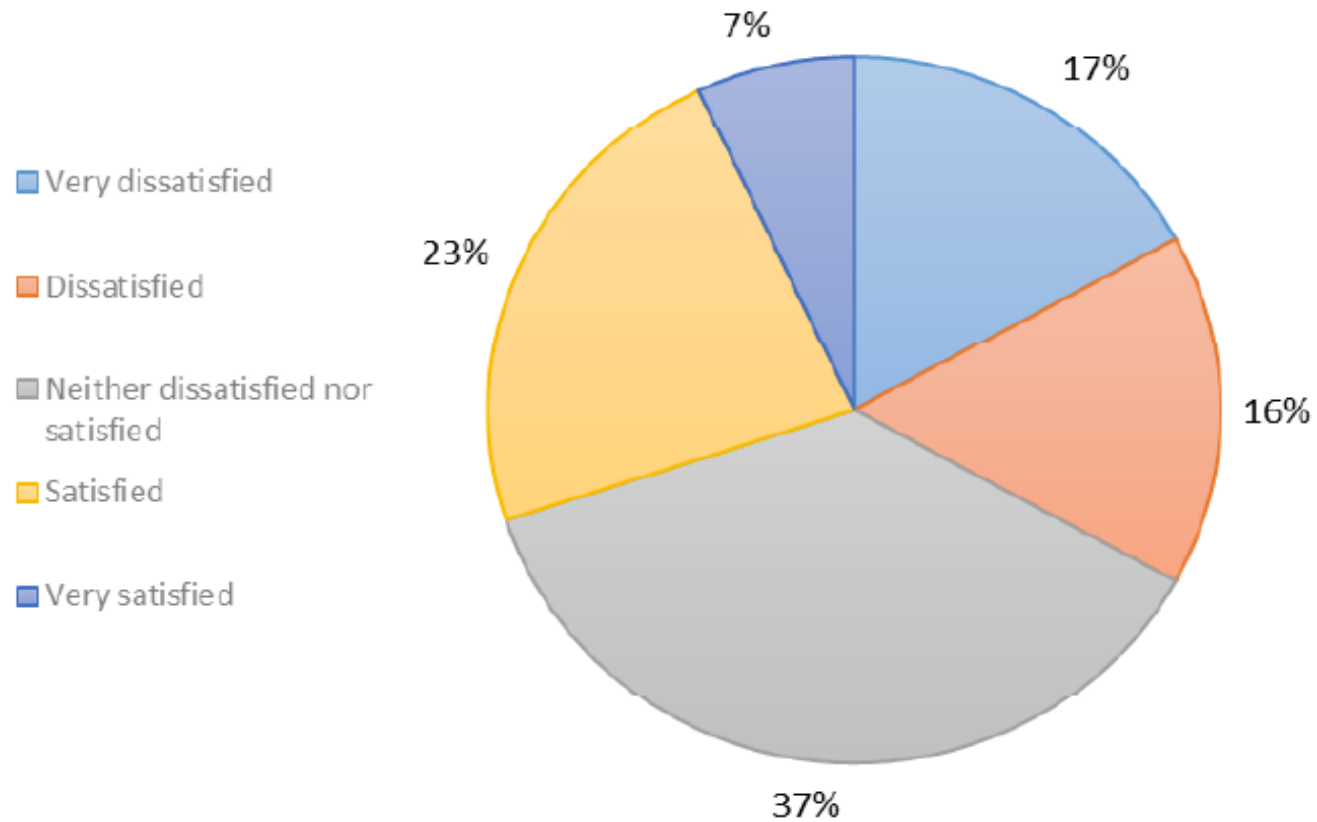
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# Main Results of the Survey



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In general, how satisfied are you with waste management services in your Municipality?



# Main Results of the Survey

- Only 33% percent of respondents do recycling and only 25% is familiar with locations in Yerevan where disposal of hazardous waste is possible.
- 75% of targeted population do not even know where the waste collection points are, and if they are placed at all in their district.
- **48% think that they have medium or low knowledge about the environment.**

# Main Results of the Survey

**Answers on the question** : “What would motivate you the most to hand over HW separately from other waste?”  
represented in total % of the sample are:

- 96% - Easy availability of collection points where citizens can bring their hazardous waste,
- 90% - Cleaner and safer city thanks to hazardous waste being handled properly,
- 72% - Certain days dedicated to collection of hazardous waste by public utility company (for example, the first Saturday of each month).

# Main Results of the Survey

**Question:** “What suggestions would you have regarding general or hazardous municipal waste management in your Municipality?”

1. **Education** on HWM (Preschool, Elementary, High Schools and Elderly), Public Awareness Campaigns;
2. Installation of **more waste bins** for HW separation (for different types of HW), better control and better access to citizens **covering the whole city** area;
3. To build HWM **Facilities** (with associated HWM infrastructure) and to use examples of good practice from abroad;
4. Easy access to **information** on HWM and collection points (offline and online);
5. Organize HW events once per week for the citizens of all districts to handover their HHW.

# Findings on institutional aspects

- Waste management is a **top priority for the Municipality**
- **Yerevan citizens** are willing to participate in improving waste
- Structural overlaps, need for structural reform and **mainstreaming** of HWM
- Consensus on need of waste management **strategy**
- Consensus on Comprehensive review of administrative **law** and law on waste
- Consensus on strengthening law enforcement approach



# The expert's opinion

- More ambitious structural reforms, including increased decentralised powers and resources
- Legislative powers
- Revenue collection
- New administrative prerogatives

# The expert's opinion

- More laws?
- Legislation enforcement?



- More education, sensitization, communication, **consultation and involvement of citizens?**

# Comparison table between cities: Staff

| City    | Population (2020) | Area, km <sup>2</sup> | Density<br>(inhabitant/km <sup>2</sup> ) | Municipality<br>HWM staff |
|---------|-------------------|-----------------------|--|---------------------------|
| Yerevan | 1,087,181 39      | 223                   | 4,875                                    | 17                        |
| Warsaw  | 1,789,62040       | 517                   | 3,462                                    | 63                        |
| Tirana  | 502,73441         | 42                    | 11,970                                   | 16                        |

# Comparison between cities: Fees

| City           | MSW collection rate | Waste fees recovery | Households, monthly fees for waste (in €) | Municipality Budget funding | CAS | Mobile CAS <sup>3</sup> |
|----------------|---------------------|---------------------|---|-----------------------------|-----|-------------------------|
| <u>Yerevan</u> | 100% <sup>4</sup>   | 80%                 | 0,36                                      | 70%                         | 0   | 0                       |
| <u>Warsaw</u>  | 100%                | 82%                 | from 14.3 to 20.6                         | 100%                        | 2   | 40 locations            |
| Tirana         | 87.9% <sup>5</sup>  | 92%                 | from 0,66 to 3.3                          | 70%                         | 0   | 0                       |
| Vienna         | 100% <sup>6</sup>   | 100%                | 19.8 <sup>7</sup>                         | 100%                        | 17  | 93 locations            |



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***Thank you***