



# **Management in Dhaka City**

**(Community Perception)**

# Group Members



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# Introduction



**E – Waste:** Electronic wastes of electronic devices.

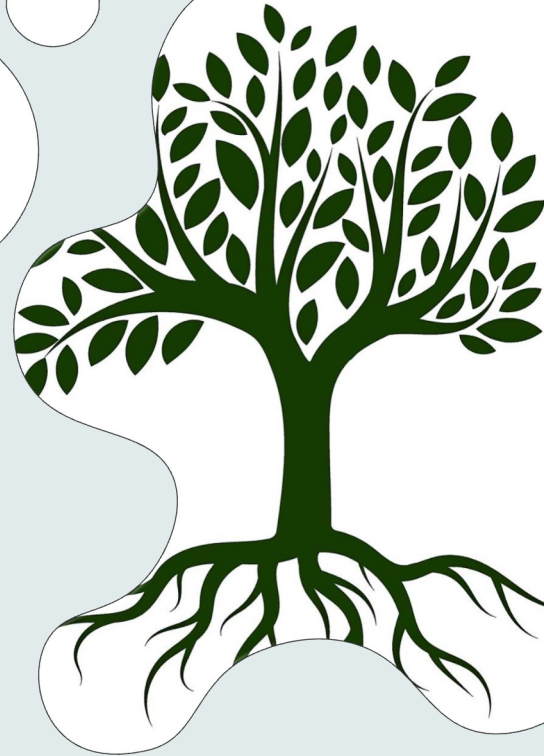


## **What Is E-Waste Management?**

E-Waste management is an electronic waste processing method to reduce its harmful impact on our environment.

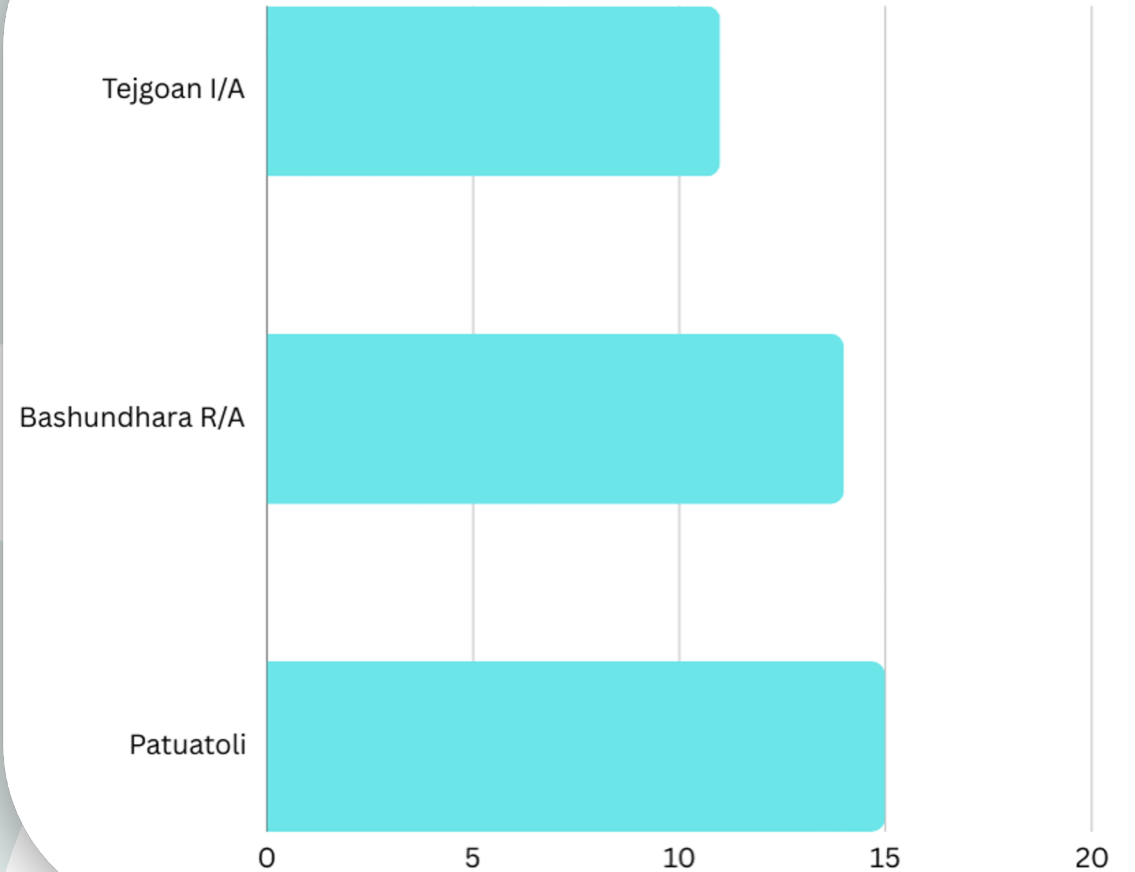
# Objective

- To identify the major sources and types of e-waste in Bangladesh.
- To assess current e-waste management practices and policies in Bangladesh.
- To assess E-Wastes impacts on human health and environment.



# Places of Survey

- **Bashundhara R/A:** This area, known for its universities, was selected to gather insights from university students.
- **Patuatoli:** This location was chosen due to the high concentration of electronic and hardware shops.
- **Tejgaon Industrial Area:** This area was selected as because it is industrial area.



# Participated People Demography

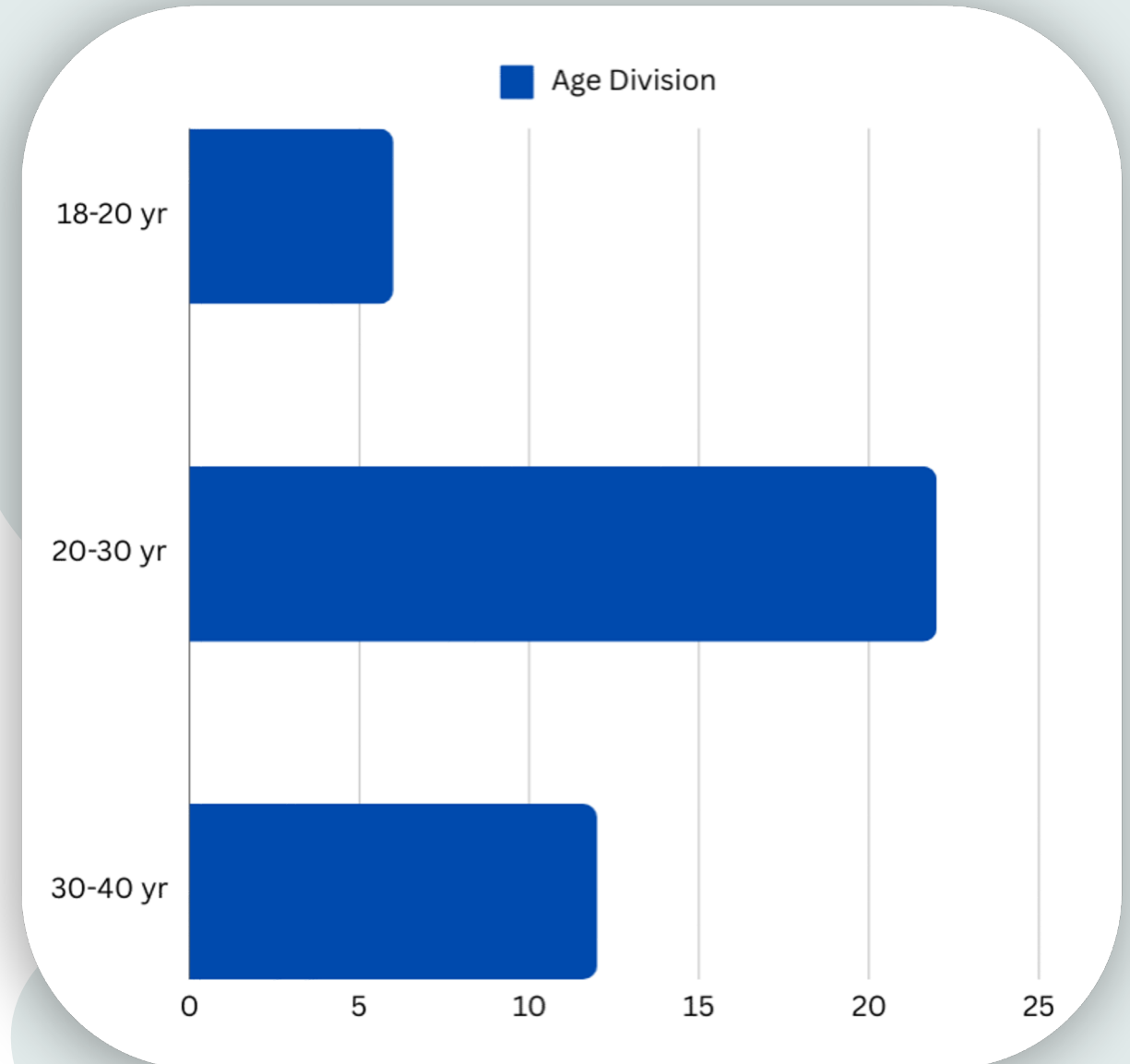
A total of **40** individuals took part in the survey, sharing their valuable insights. This data offers a comprehensive overview of the varied perspectives within the city, enriching our understanding of the surveyed population.



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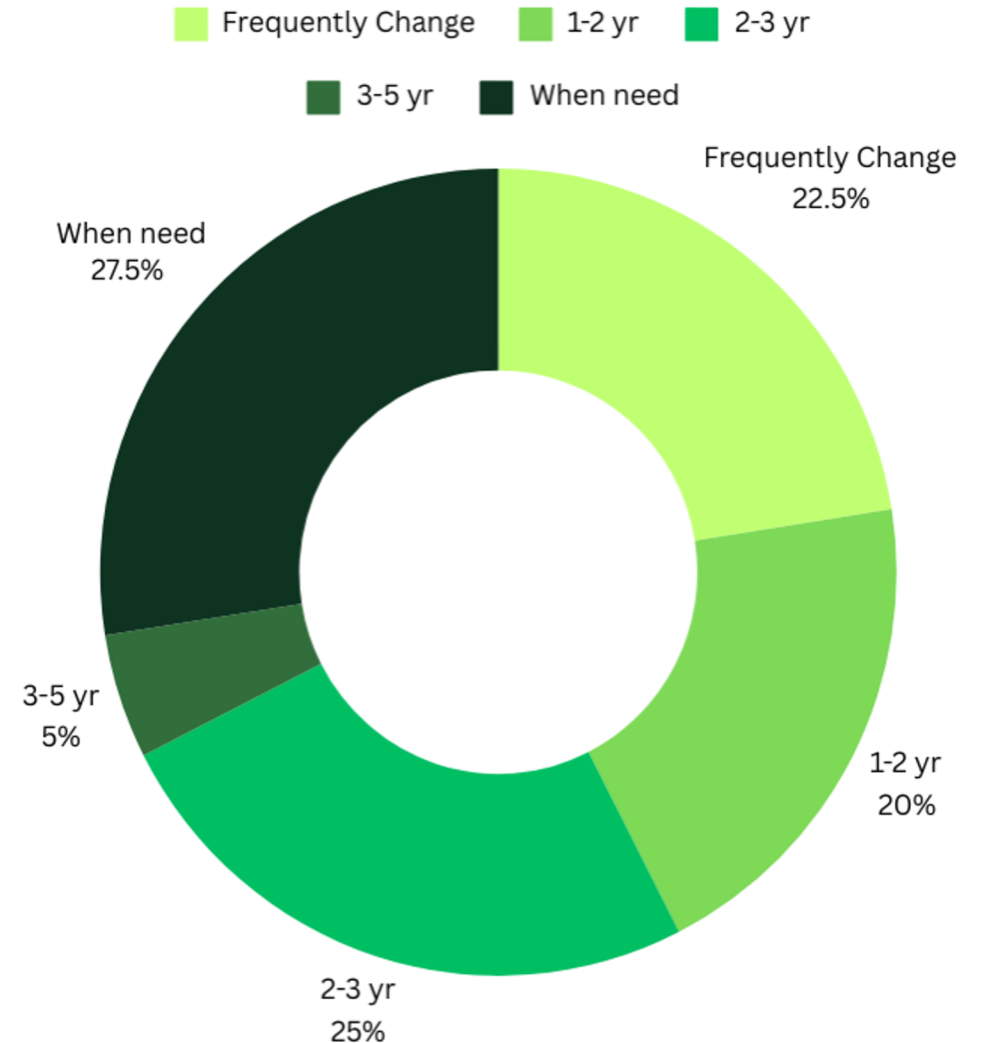
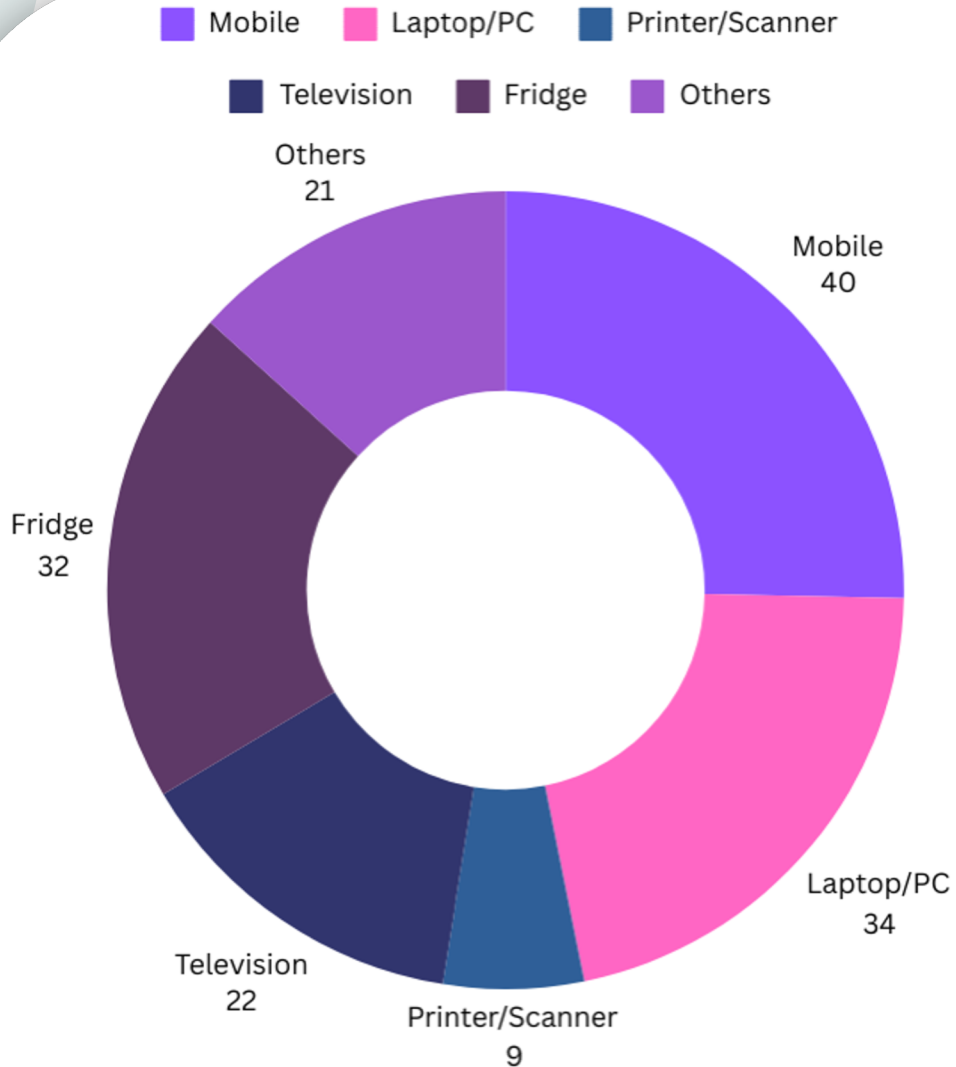


# Data Analysis & Findings

- Device Usages pattern of respondents.
- Primary Sources of E-Waste: Participants Perspective.
- Awareness & Management Practices of Electronic Waste.
- Community Perceptions and Suggestions.
- Effects of E-Waste on Health & Environment.

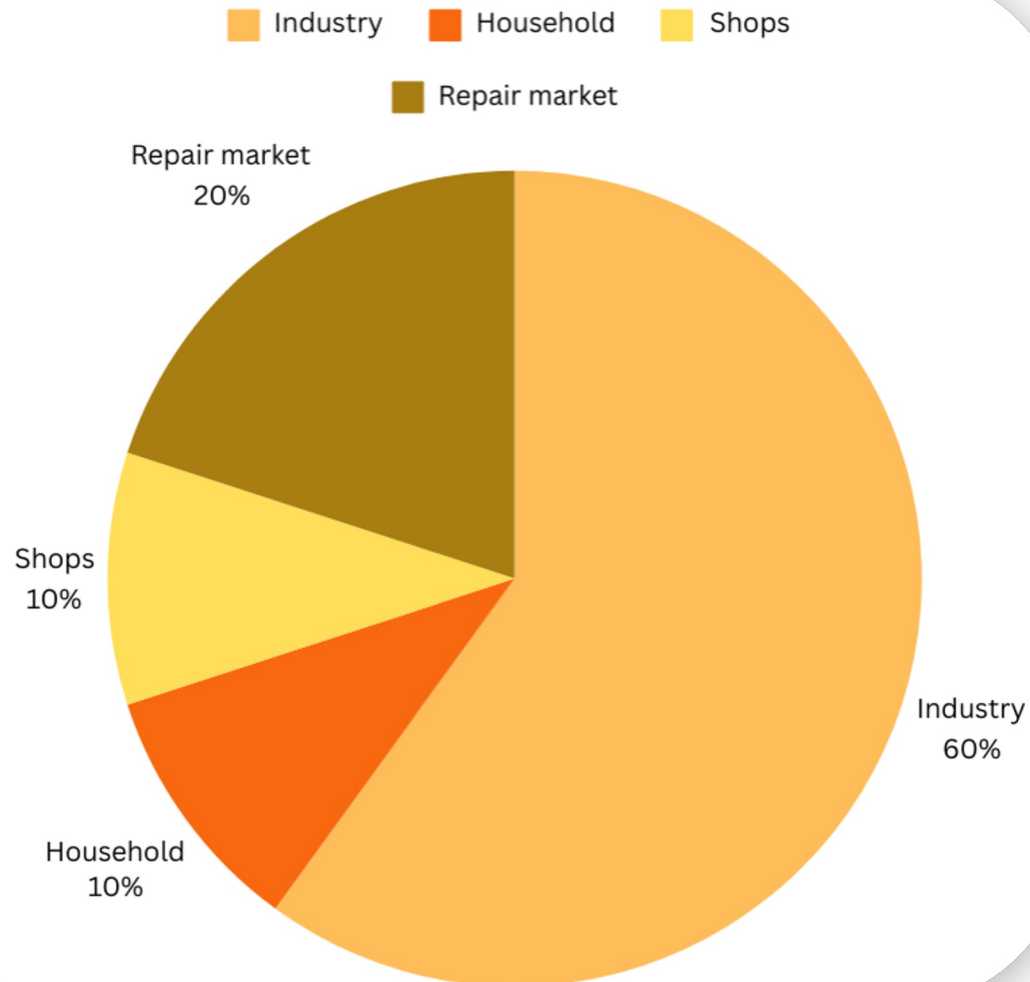


# Device Usages Pattern of Respondents.





## MainSource:



## Primary Sources of E-Waste: Participants Perspective

### Material Source:

- Battery
- Toys
- Charger
- Bulbs
- Phones
- Refrigerators/AC
- Car Materials
- Multiplug

# Awareness & management Practices of Electronic Waste.



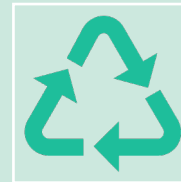
Many people are unaware of the environmental impact of e-waste, which poses serious threats due to hazardous materials.



Lack of awareness contributes to pollution and health risks. Awareness about e-waste has grown as people recognize the hazards of improper disposal.

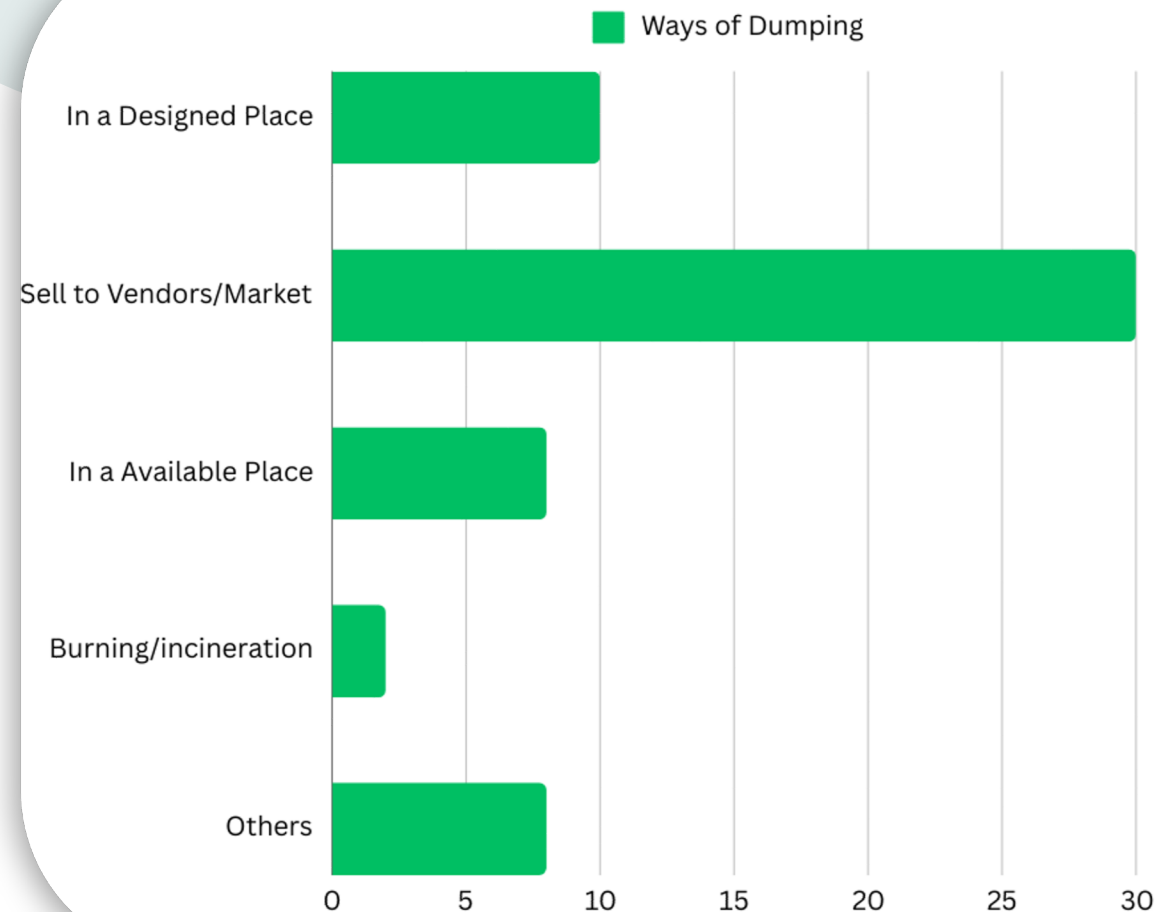


With technological advancements, efforts for responsible e-waste management are increasing.



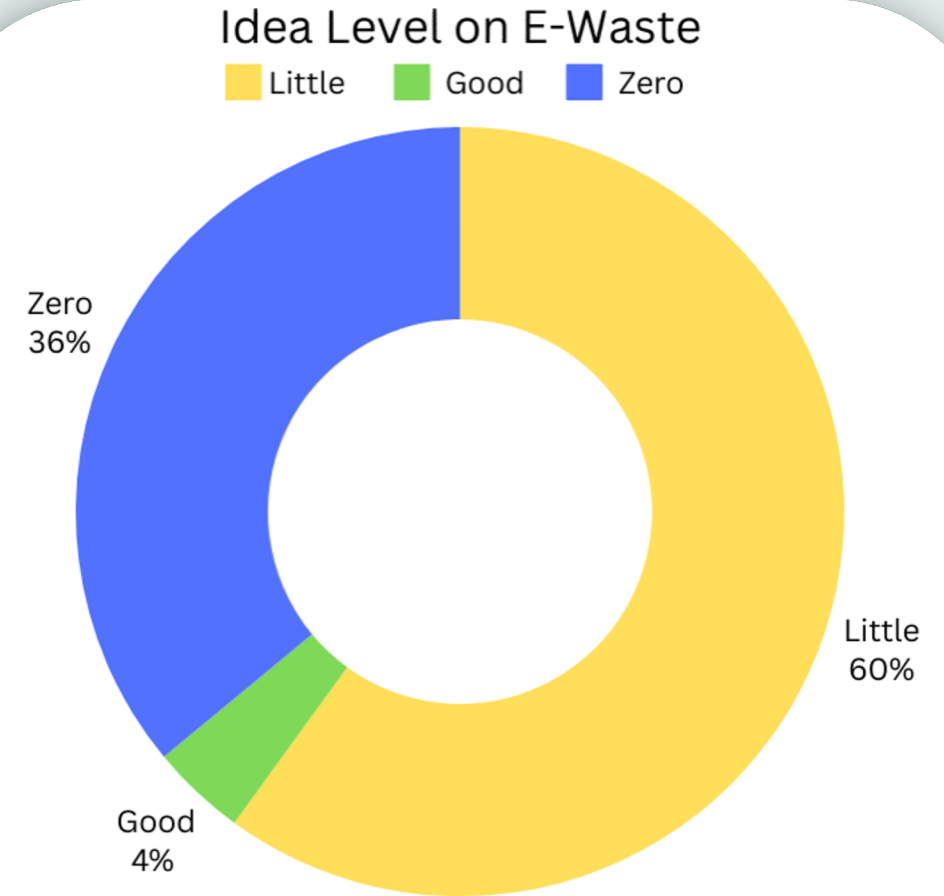
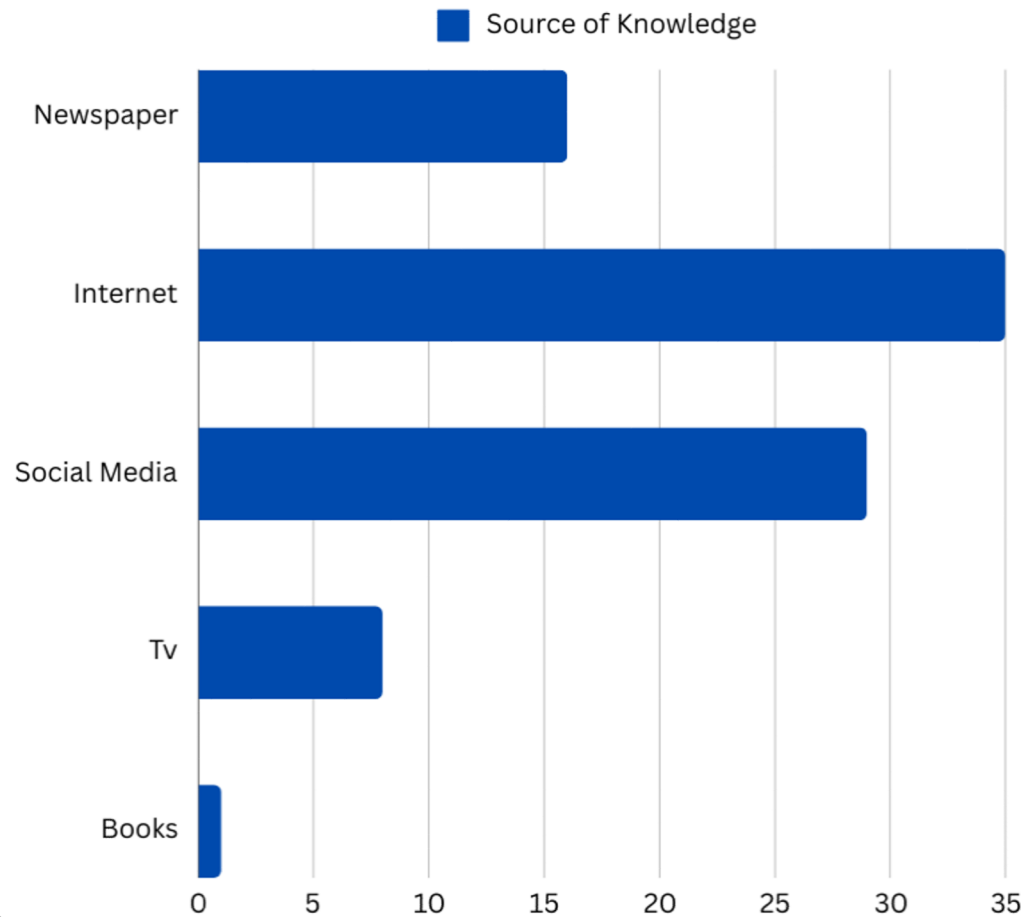
Few understand the consequences of dumping electronic waste.

# Ways of Dumping Devices



The data indicates various ways in which people dispose of their electronic waste. While some choose designated disposal sites or sell their e-waste to vendors or markets, others simply discard it in available areas. Unfortunately, a small percentage resort to burning, which can have severe environmental and health consequences. Understanding these disposal practices is crucial for developing effective e-waste management strategies.

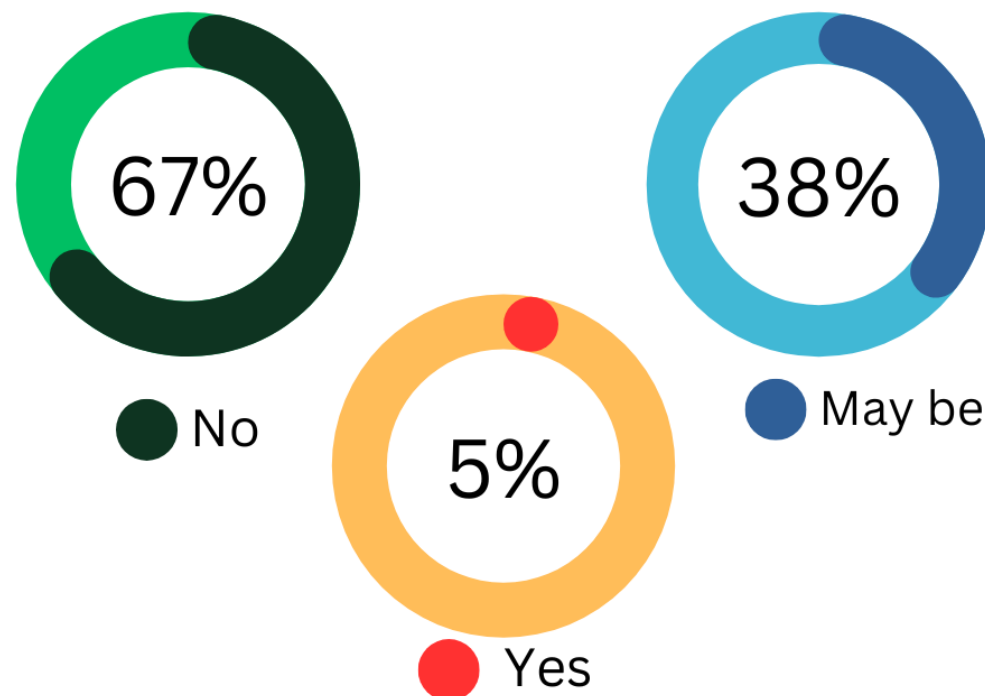
# Level of Awareness of E-Waste



# Community Perceptions

Residents feel there is a lack of proper waste disposal infrastructure, leading to visible environmental and health issues. Garbage & wastes often piles up in public spaces due to the absence of a proper dumping system, consequences hazardous Pollution.

Dhaka city has a proper dumping system?



# Community Suggestions

- The city corporation efficiently collects and separates e-waste from other waste streams.
- A dedicated facility for e-waste disposal has been established, ensuring proper management of electronic devices.
- E-waste is sorted at this facility to determine items suitable for reuse and those that can be recycled.
- Awareness campaigns promoting the principles of reduce, reuse, and recycle (3R) are conducted to educate the public.
- Government intervention is crucial to ensuring the success and sustainability of these initiatives.



# Effects of E-Waste on Health & Environment

- i. **Health Risks:** Exposure to hazardous materials in e-waste, such as lead and mercury, can cause respiratory issues, neurological disorders, and cancer.
- ii. **Environmental Pollution:** Improper disposal contaminates soil, water and air, endangering ecosystems and wildlife.
- iii. **Underground Water pollution:** Electronic waste contains hazardous materials that can leach into the soil and contaminate groundwater, posing a serious threat to public health.
- iv. **Resource Depletion:** Valuable materials in e-waste, like gold and copper, are lost when not properly recycled, leading to resource depletion.
- v. **Global Impact:** Improper disposal, including export to developing countries, poses risks to local populations and ecosystems worldwide.

# Model Proposal Model for Electronic Waste Management in Dhaka

- i. **Awareness Campaigns:** Launch extensive awareness campaigns to educate residents about the proper disposal of electronic waste and the environmental impact of improper disposal.
- ii. **City Corporation Roles:** Empower city corporations to establish dedicated facilities for e-waste disposal and increase monitoring of e-waste management practices.
- iii. **Promotion of 3R:** Encourage the recycling, reusing of electronic waste to reduce environmental impact and preserve valuable resources.
- iv. **Maintain Regulations:** Implement and enforce regulations governing the disposal, aware people to maintain and recycling of electronic waste.
- v. **Monitoring Systems:** Foster community engagement through initiatives such as recycling drives and establish monitoring systems to track and improve electronic waste management practices.

# Concluding and Remark

The survey on electronic device usage and waste management in Dhaka city highlights the widespread use of gadgets like phones, laptops, and appliances. Many respondents frequently replace devices, indicating a need for sustainable practices. Electronic waste disposal methods vary, emphasizing the importance of awareness for responsible disposal. However, the survey also reveals a limited understanding of the harmful effects of electronic waste.

Thank you

