Nepal Waste Map is supported by the Data for Development Program implemented by The Asia Foundation and Development Initiatives, and supported by DFID.
An Action-Research Tool for Waste Management

1. Open-Data Platform
   a) Web-based Dashboard
   b) Mobile Application

2. Enables Communication, Public Participation and Stakeholder Collaboration.

3. Plan Reforms, allocate resources and monitor the waste management system
Mapped Functional and Operational Elements

**Waste Infrastructure**
Waste Bins, Scrap Dealers, Recycling Centers, Transfer Stations and others

**Waste Collection Routes**
Collection companies, routes and schedules

**Waste Coverage**
Building Category & Storey (*Household, Commercial and Institutions*)
Frequency of Collection
Joined a Waste Service or not

**Waste Hotspots**
Waste Dumping Spots, Waste Burning Spots
Waste Collection Routes & Schedules

Kathmandu Metropolitan City

Waste Collection Routes
- Waste Concern
- Sohrakhutte Pahilo Kshetra Upabhokta Samiti
- Himalayan Baatawaran Pvt. Ltd
- Manohara Waste Management Pvt. Ltd
- KMC
- Janajagaran Waatawaran Samrakshan Abhiyan Pvt. Ltd
- Nepal Phulbari Sewa Pvt. Ltd
- Nepsemyak
- Safai Abhiyan Sewa Pvt. Ltd

Name: KMC
Schedule: 5 am - 8 am
Winter Schedule: 6 am - 8 pm
Frequency: Weekly Twice
Sweeping Time: 5 am - 8 am
Waste Coverage – Building Category

Kathmandu Metropolitan City
WARD 3, 5, and 32

Kathmandu Metropolitan City
17133
No of building mapped

Building category

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institutions</td>
<td>2.21%</td>
</tr>
<tr>
<td>Residential</td>
<td>70.84%</td>
</tr>
<tr>
<td>Residential + Commercial</td>
<td>11.69%</td>
</tr>
<tr>
<td>Commercial</td>
<td>11.62%</td>
</tr>
<tr>
<td>Others</td>
<td>3.65%</td>
</tr>
</tbody>
</table>
Waste Coverage - Frequency of Waste Collection

Kathmandu Metropolitan City
WARD 3, 5, and 32

Kathmand Metropolitan City

<table>
<thead>
<tr>
<th>Frequency of Waste Collection</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twice a week</td>
<td>43.35%</td>
</tr>
<tr>
<td>Weekly</td>
<td>16.44%</td>
</tr>
<tr>
<td>Irregular</td>
<td>22.02%</td>
</tr>
<tr>
<td>Unknown</td>
<td>18.19%</td>
</tr>
</tbody>
</table>
Waste Coverage – Joined a Service

Kathmandu Metropolitan City
WARD 3, 5, and 32

Ward 3
Connected to a service
93.53% 6.47%
Connected Not Connected

[Map showing waste coverage in Kathmandu Metropolitan City]
Waste Infrastructure

Kathmandu Metropolitan City
WARD 3, 5, and 32

<table>
<thead>
<tr>
<th>Material</th>
<th>Plastic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume (litres)</td>
<td>120</td>
</tr>
<tr>
<td>Condition</td>
<td>Good</td>
</tr>
<tr>
<td>Collected By</td>
<td>Private Service Provider</td>
</tr>
<tr>
<td>Frequency</td>
<td>Daily</td>
</tr>
<tr>
<td>Installed by</td>
<td>Private entity</td>
</tr>
</tbody>
</table>
Waste Burning & Dumping Spots

Ward 32
Waste Burning Spot

Location: Koteshwor, Kathmandu 44600, Nepal
Status: Resolved
Reported on: 2018-01-18
Mobile Application

Community of people addressing waste challenges in Nepal

- NEPAL WASTE MAP
- Waste Map
- Report Waste Issues
- Public Form
- Learn
- News & Alerts
- Background

Kathmandu Valley
Waste coverage
- 3 Mapped Wards
- 13255 Mapped Households
- 10947 Households Joined to a Waste Service
- 2308 Households without a Waste Service

Waste in our Neighborhood
- 368 Waste Dumping Sites
- 72 Waste Burning Spots
- 440 Issues Reported
- 1 Issue Resolved

Waste Infrastructure
- 73 Waste Infrastructure
- 50 Waste Bins
- 20 Scrap Dealers
- 4 Transfer/Recycling Centers
Mobile Application

Select Category

Kathmandu Metropolitan
- Waste Infrastructure
- Waste Bins
- Scrap Dealers
- Recycling Centers
- Transfer Stations
- Composting Centers
- Landfill Site
- Collection Points
- Waste Coverage

Waste Map

KMC

Nepsemyak

Nepsemyak Waste Collection
- Summer: 6 am - 12 pm
- Winter: 7 am - 2 pm
- Frequency: Weekly Twice
- Sweeping Time: 4:30 am - 7 am

OK
www.nepalwastemap.org

For mobile application type: Nepal Waste Map on Google Play Store
Benefits to the City, Municipality, or Community

Plan and smartly allocate resources.
(Waste workers, waste service providers, waste bins and other human and material resources)

Monitor and Streamline waste collection companies, coverage, routes and schedules
(Set benchmark and KPIs)

Communication & Collaboration Platform
Private – Public - Government
(A tool for assigning tasks, sharing responsibility, and public awareness)

User friendly technology and efficient waste management
(Easy to use/update, improved service delivery and well utilized budget)
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