

### Characterization of waste management practices

	Description	ANSWERS	
1	Date		
2	Country of investigation		
3	Province		
4	Town		
5	Latitude		
6	Longitude		
7	Climate ( <a href="http://koeppen-geiger.vu-wien.ac.at/pdf/Paper_2006.pdf">http://koeppen-geiger.vu-wien.ac.at/pdf/Paper_2006.pdf</a> )		1= equatorial; 2= arid; 3= warm temperature ; 4= snow
8	Precipitation ( <a href="http://koeppen-geiger.vu-wien.ac.at/pdf/Paper_2006.pdf">http://koeppen-geiger.vu-wien.ac.at/pdf/Paper_2006.pdf</a> )		1= desert; 2= steppe; 3=fully humid; 4= summer dry; 5=winter dry; 6=monsoonal
9	% urban population		
10	Waste generation rate (kg/capita/day)		
11	CO <sub>2</sub> -emission/capita		
12	Ecological footprint/capita		
13	Gross Domestic Product/capita/year		
14	Country population		
15	The total number of persons inhabiting the city		
16	Density (persons/km <sup>2</sup> )		
17	Life expectancy at birth (years)		
18	Healthy life expectancy at birth (years)		
19	Perinatal mortality rate (deaths in the first week of life per 1,000 live births)		
20	Neonatal mortality rate (death during the first 28 days of life per 1000 live births)		
21	Adult mortality rate (probability of dying between the ages of 15 and 60 per 1000 adults)		
22	Education expenditures (percentage of GDP)		
23	Presence of official disposal site		1= Yes      2= No

24	Household waste brought to the community official disposal site		1= Yes    2= No
25	Institutional waste brought to the community official disposal site		1= Yes    2= No
26	Construction waste brought to the community official disposal site		1= Yes    2= No
27	Health care waste brought to the community official disposal site		1= Yes    2= No
28	Agriculture waste brought to the community official disposal site		1= Yes    2= No
29	Industry waste brought to the community official disposal site		1= Yes    2= No
30	Commercial waste brought to the community official disposal site		1= Yes    2= No
31	Extend of waste separation at the house level		1=none; 2=some; 3=half; 4=most; 5=all
32	Extend of waste separation at the business level		1=none; 2=some; 3=half; 4=most; 5=all
33	Extend of plastic waste separation at the municipality level		1=none; 2=some; 3=half; 4=most; 5=all
34	Extend of paper waste separation at the municipality level		1=none; 2=some; 3=half; 4=most; 5=all
35	Extend of metal waste separation at the municipality level		1=none; 2=some; 3=half; 4=most; 5=all
36	Extend of glass waste separation at the municipality level		1=none; 2=some; 3=half; 4=most; 5=all
37	Extend of organic waste separation at the municipality level		1=none; 2=some; 3=half; 4=most; 5=all
38	Extend of battery separation at the municipality level		1=none; 2=some; 3=half; 4=most; 5=all
39	Extend of medical waste separation at the healthcare centers		1=none; 2=some; 3=half; 4=most; 5=all
40	Extend of electric and electronic waste separation at the municipality level		1=none; 2=some; 3=half; 4=most; 5=all
41	Extend of waste dispersed in the city		1=none; 2=some; 3=half; 4=most; 5=all
42	The collection of waste is done by municipality		1= Yes    2= No
43	The collection of waste is done by private sector		1= Yes    2= No
44	The collection of waste is done by waste pickers		1= Yes    2= No
45	The collection of waste is done by children		1= Yes    2= No
46	The collection of waste is done by Public Private Partnership		1= Yes    2= No
47	The collection of waste is done by transfer point (station)		1= Yes    2= No
48	Frequency of waste collection at commercial sites (times/week)		
49	Frequency of waste collection at inner city (times/week)		
50	Frequency of waste collection at rural areas (times/week)		

51	Waste collection combination		1=no collection; 2=Animal power; 3=Man power; 4=Animal+man; 5=Mechanized
52	Collection by rickshaw		1= Yes    2= No
53	Collection by wheelbarrow		1= Yes    2= No
54	Collection by truck		1= Yes    2= No
55	Collection by tractor		1= Yes    2= No
56	Collection by compactor		1= Yes    2= No
57	Collection by animal		1= Yes    2= No
58	Collection by tricycle		1= Yes    2= No
59	Collection by motorcycle		1= Yes    2= No
60	Collection by handtrolley		1= Yes    2= No
61	Price or fee for the collection service/year ( local currency)		
62	Collection time fitting users' needs		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
63	Waste transfer station(s) in the city		1= Yes    2= No
64	Waste littering the road while transported		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
65	Streets used as transfer stations		1= Yes    2= No    3=Non Applicable
66	Schedule for waste collection at transfer station(s) accomplished		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always 6=Not Applicable
67	Presence of illegal dumping sites in the city		1= Yes    2= No
68	Waste covered at illegal disposal site		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
69	Distance to the official disposal site (km)		
70	Waste treated before disposal		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
71	Control of healthcare waste treatment and disposal		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
72	Level of composting done by households, private sector or municipality		1=none; 2=some; 3=half; 4=most; 5=all
73	Level of domestic burning of waste at household level		1=none; 2=some; 3=half; 4=most; 5=all
74	Quality of compost controlled		1= Yes    2= No    3=Non Applicable
75	Official disposal site waste covered		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
76	If there is a landfill, indicate its level of performance		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always 6=Not Applicable
77	Hazardous waste placed on the streets		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
78	Hazardous waste being treated		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always

79	Presence of waste reduction strategies in the city		1= Yes    2= No
80	Recycling awareness campaigns supported by municipality		1= Yes    2= No
81	Practice to use reusable shopping bags		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
82	NGOs responsible for waste reduction campaigns		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
83	Reduction campaigns performed at schools		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
84	Reuse of materials awareness campaigns present in the city		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
85	Restaurant waste used to feed animals		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
86	Paper/glass reused within the municipality		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
87	Metal scrap used in the municipality		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
88	Waste pickers pay a fee for the recyclables they collect		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
89	Recyclables material buying companies in the surroundings of the city		1= None; 2=Few; 3=Some; 4=Many; 5=Very many
90	Recycling companies in the surroundings of the city		1= None; 2=Few; 3=Some; 4=Many; 5=Very many
91	Recyclable materials collected by waste pickers		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
92	Presence of recyclable material companies in the country		1= Yes    2= No
93	Practice of biogas production with HH waste		1= Yes    2= No
94	Municipality's authorities knowledge on the city waste situation		1= None; 2=Very little; 3=Little; 4=Sufficient; 5=Extensive
95	Municipality has a swm plan		1= Yes    2= No
96	Municipality has standards for the swm system		1= Yes    2= No
97	Enforcement of SWM standards		1= Yes    2= No    3= NA
98	Amount of equipment available to manage sw		1= None; 2=Very little; 3=Little; 4=Sufficient; 5=Extensive
99	Suitability of the infrastructure to manage sw		1= Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
100	Waste considered by the municipality authorities as a resource		1= Yes    2= No
101	Structured collection system for solid waste (sw) available in the community		1= Yes    2= No
102	Efficiency of the sw collection system (in terms of what is offered by the provider and what the users receive)		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always 6=Not Applicable
103	Available transportation facilities for sw collection		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always 6=Not Applicable
104	Quality of the road(s) for sw collection		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent

105	Knowledge of municipal workers on technologies for swm		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
106	Knowledge of municipal workers on good practices for swm		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
107	Citizens participating in the decision making processes for swm		1=none; 2=some; 3=half; 4=most; 5=all
108	Municipal authorities perceived high cost for alternative technologies for swm		1=none; 2=some; 3=half; 4=most; 5=all
109	Local available low cost technologies for swm		1= None; 2=Very few; 3=Few; 4=Sufficient; 5=Extensive
110	Local available professionals in the field of swm working for the municipality		1= None; 2=Very few; 3=Few; 4=Sufficient; 5=Extensive
111	Municipality has skilled personnel		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
112	Market for compost available		1= Yes 2= No
113	Presence of health campaigns in the community		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
114	Presence of environmental awareness campaigns in the city		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
115	Solid waste service provided for free		1= Yes 2= No 3=Not Applicable
116	Cost recovery for sw services		1=none; 2=some; 3=half; 4=most; 5=all
117	Community willing to pay for waste collection		1=none; 2=some; 3=half; 4=most; 5=all
118	Available costing system for waste management in the municipality		1= Yes 2= No
119	Limited financial resources for wm at the local government		1= Yes 2= No
120	National governmental financial support to the municipality		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
121	Presence of economic instruments (fees) for wm		1= Yes 2= No
122	Presence of economic instruments (subsidies) for wm		1= Yes 2= No
123	Presence of economic instruments (tariff) for wm		1= Yes 2= No
124	Presence of economic instruments (taxes) for wm		1= Yes 2= No
125	Does the private sector participate in waste management services?		1= Yes 2= No
126	3rd party or donor finance capital investments occur for wm		1= Yes 2= No
127	Dependency on finances coming from development cooperation		1=none; 2=some; 3=half; 4=most; 5=all
128	Mindset of the community difficult to change		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
129	Public awareness campaigns available for wm in the community		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
130	Stakeholders willing to participate in the wm solutions		1=none; 2=some; 3=half; 4=most; 5=all

131	Collaboration among stakeholders		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
132	Presence in the community of active public platforms		1= None; 2=Few; 3=Some; 4=Many; 5=Very many
133	Leaders interested in environmental issues		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
134	Trust between private, public and civil society		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
135	Activities of the waste pickers are criminalized		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always 6=Not Applicable
136	Level of communication between the civil society and the local government		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
137	Decentralization policy with transfer of finances and capacities to municipalities		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
138	Accountability of local government		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
139	Existence of institutionalized Extended Producers Responsibility		1= Yes 2= No
140	Efficiency of municipal management		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
141	Your perception of the organization of the municipality		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
142	Coordination among municipal departments		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
143	Municipality workers willing to change working practices		1= None; 2=Few; 3=Some; 4=Many; 5=Very many
144	Priorities for solid waste management at municipal level		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
145	Interest of political authorities in solid waste management		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
146	Level of motivation of the municipal workers		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
147	Level of corruption within municipality		1=None; 2=Low; 3=Average; 4=High; 5=Very high
	Do partnerships exist for service delivery?		
149	Level of coordination and cooperation between service users and service providers		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
150	Extend to which goals and objectives of service users and service providers are shared		1=none; 2=some; 3=half; 4=most; 5=all
	Do partners in partnerships have equal power?		
	Extend of matchmaking between the municipality and the private informal sector		

	Adequacy of policy and legal frameworks to manage solid waste		
	Does environmental legislation exist?		
	Enforcement of the law in practice		
	Your perception of the organization of the municipality		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
	Municipal workers willingness to change their ways of working		1= None; 2=Few; 3=Some; 4=Many; 5=Very many
	Municipal authorities have priorities for other urgent topics than swm		1=Never; 2=sometimes; 3=Often; 4=Very Often; 5=Always
	Level of interest of political authorities in wm issues		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
	Adequacy of policy and legal frameworks to manage sw		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
	Environmental legislation in place		1= Yes 2= No
	Practice of law enforcement		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
	Clear implementation of the countries' laws by the municipality		1=Very bad; 2=Bad; 3=Good; 4=Very good; 5=Excellent
	Budget of municipality for waste management services per year (local currency)		