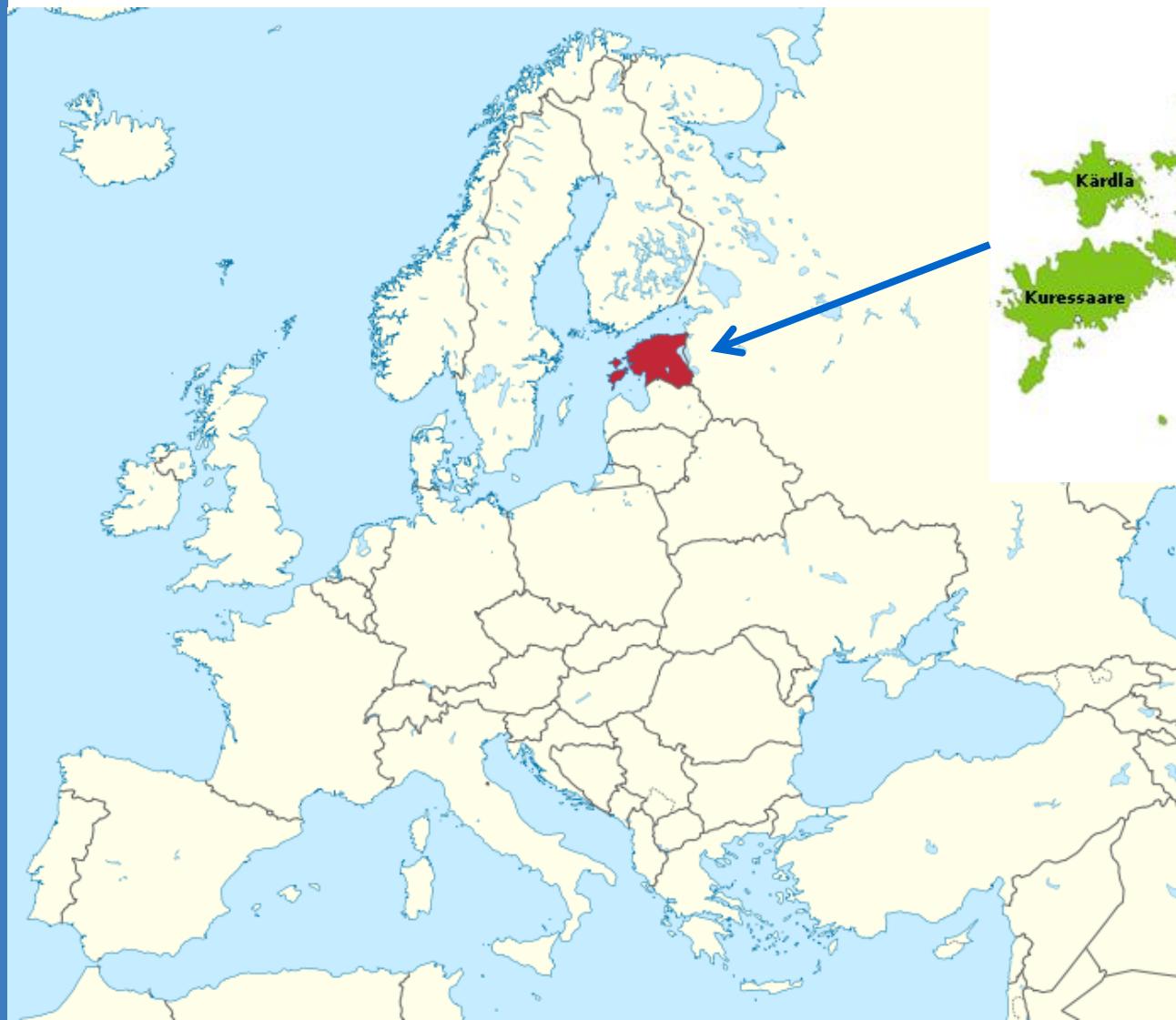


Waste management in Tallinn



Kristjan Mark
Head of the Waste Management Division
Tallinn Environment Department

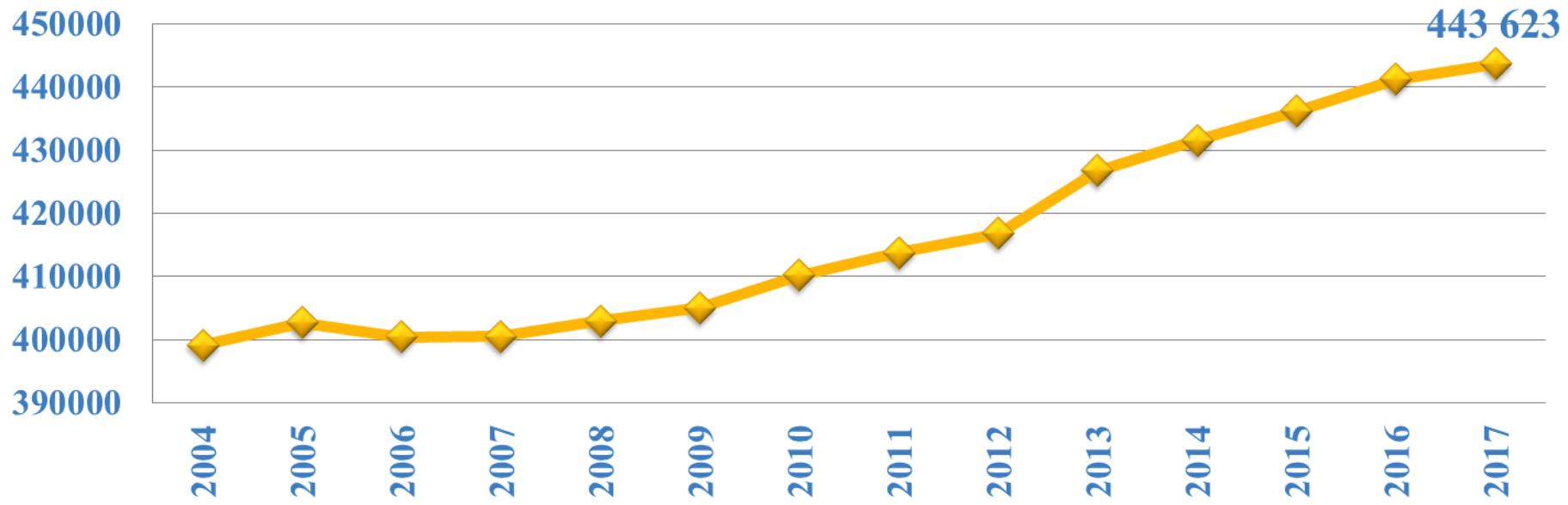
Tallinn – The capital of Estonia



Lonely Planet's best
value destination in
the world in 2016

Tallinn – General information

Population of Tallinn

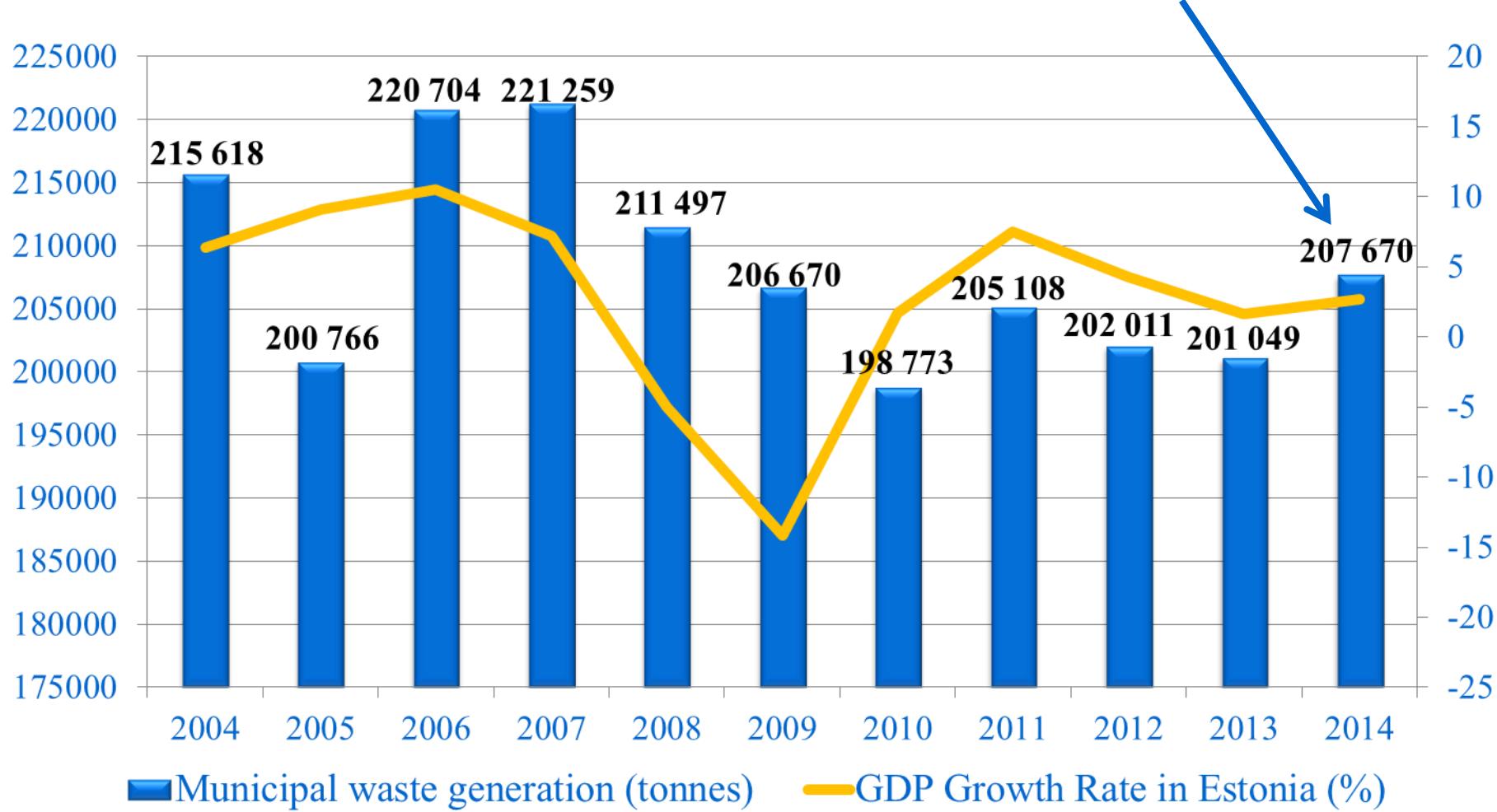


Tallinn in brief

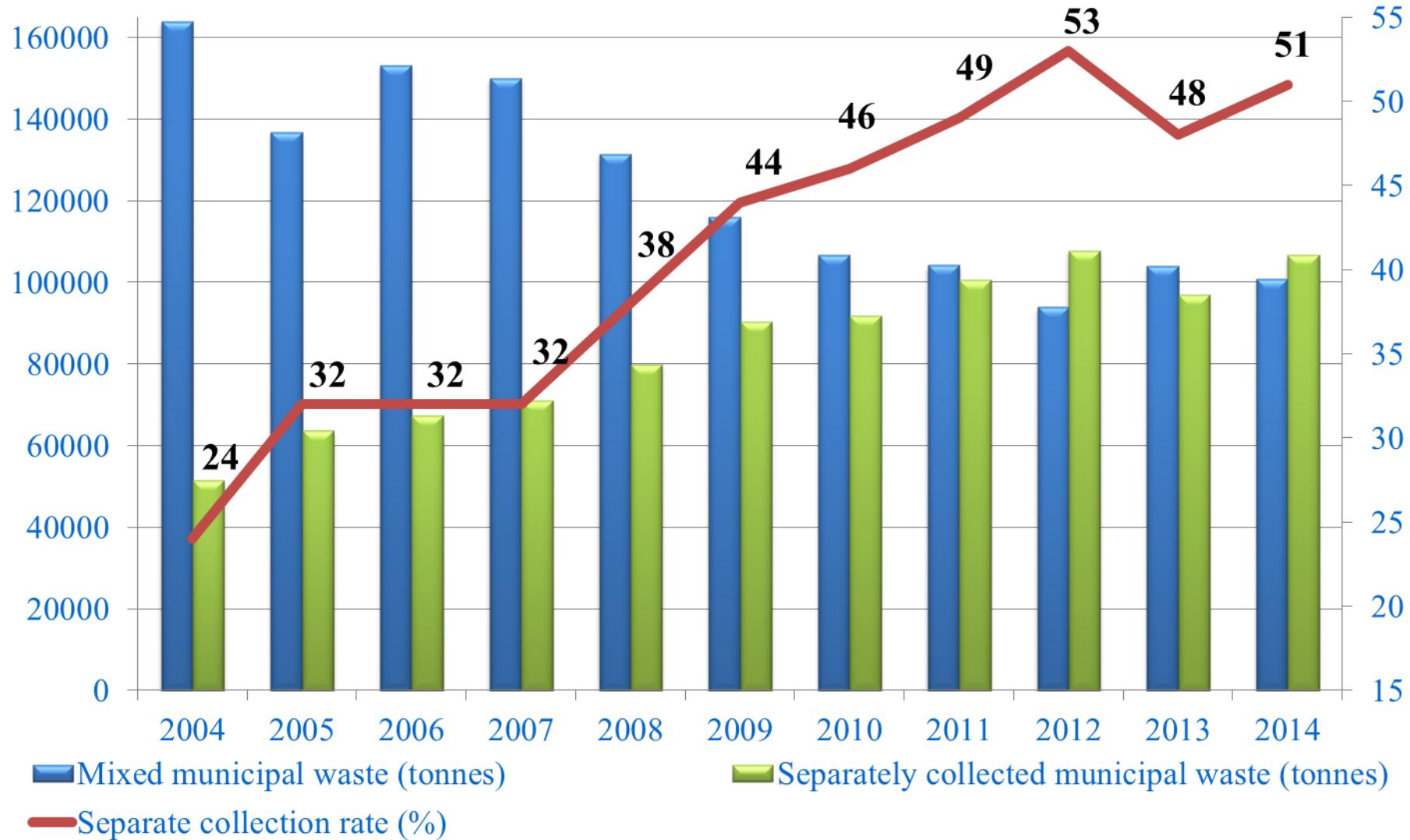
Population (01.01.2017)	443 623
Number of households	190 208
Area	159,33 km ²
Population density	2 784 inhabitants/km
Visitors accommodated in Tallinn	1 579 491

Generation of municipal waste in Tallinn

Total (municipal) waste generation = 481 kg/inhabitant



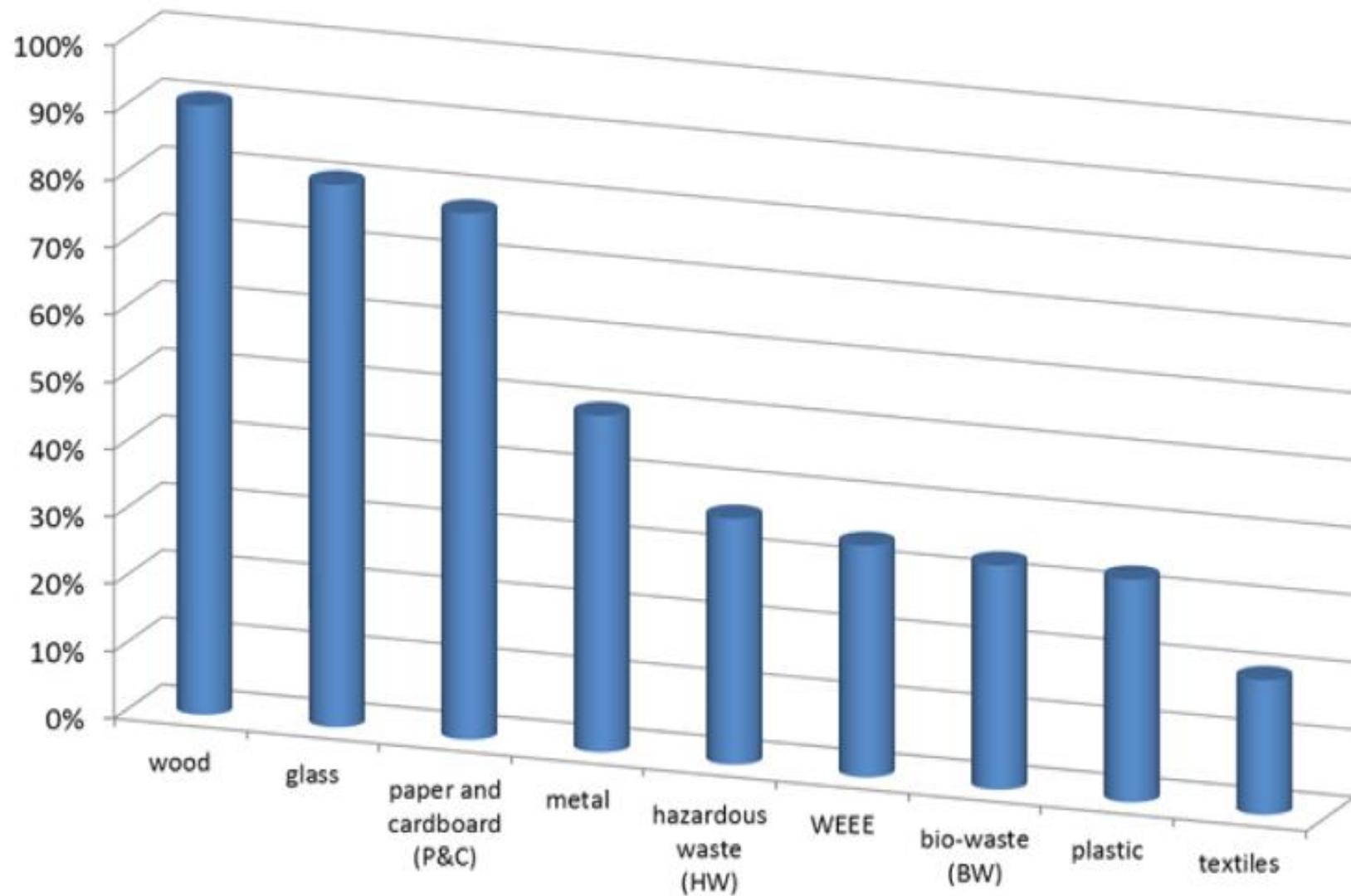
Separate collection rate



Types of waste collected separately

	Door-to-door single fraction	Door-to-door co-mingled	Collection points	Civic amenity sites	Mobile collection
Municipal mixed waste	X				
Wood				X	
Bio-waste	X			X	
Glass			X	X	
Paper and cardboard	X		X	X	
Packaging waste		X	X	X	
Metal			X	X	
Plastic			X	X	
Hazardous waste			X	X	X
WEEE			X	X	X
Textiles			X	X	
Bulky waste	X			X	
Used tyres				X	

Separately collected waste in Tallinn



Types of waste treatment in Tallinn

Recycling / Reuse

Incineration

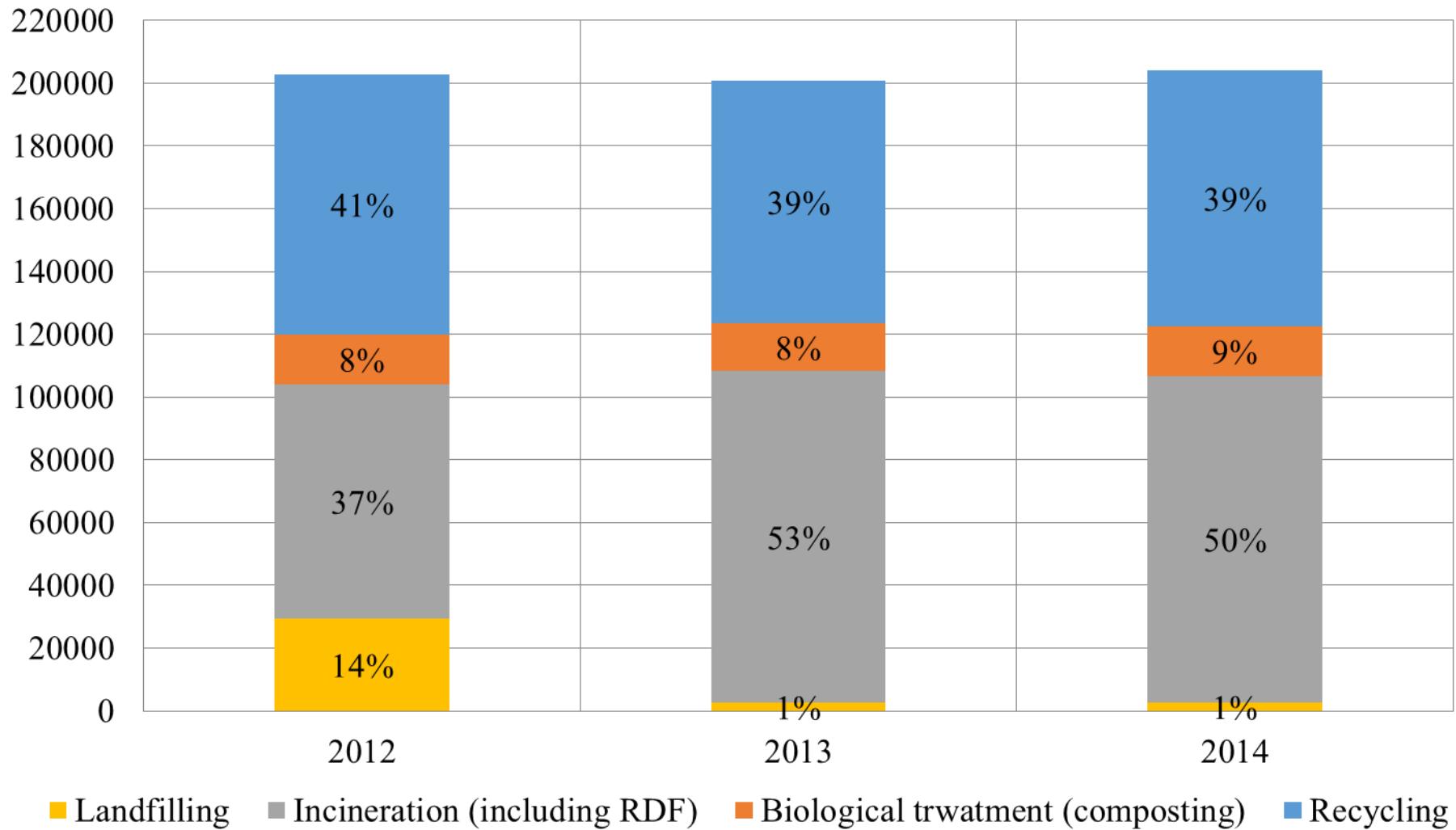
Mechanical-biological treatment (MBT)

Composting

Landfilling



Waste treatment in Tallinn



Municipal waste collection systems in Tallinn

Door-to-door single fraction

Door-to-door co-mingled

Civic amenity sites

Bring Points

Mobile collection



Door-to-door collection systems

Door-to-door collection functions throughout the territory of Tallinn and the following types of waste are separately collected:

1 mixed municipal waste

2 paper and cardboard

3 biodegradable waste
(kitchen and restaurant waste,
garden and park waste)

4 bulky waste



Door-to-door collection systems

Organized waste collection → Currently developed model

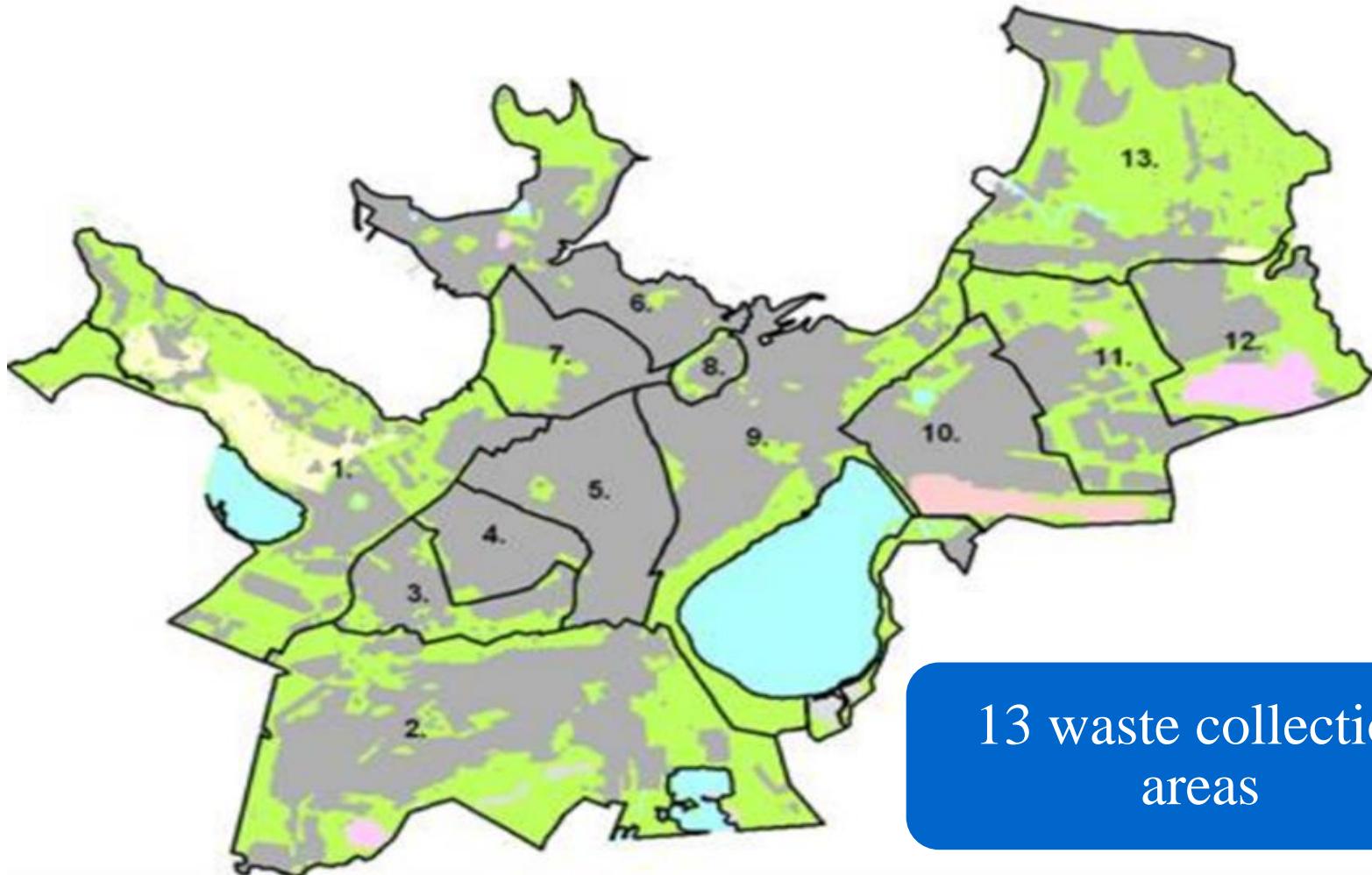
Tallinn Waste Center



Waste collection service

Waste treatment plant

Door-to-door collection systems



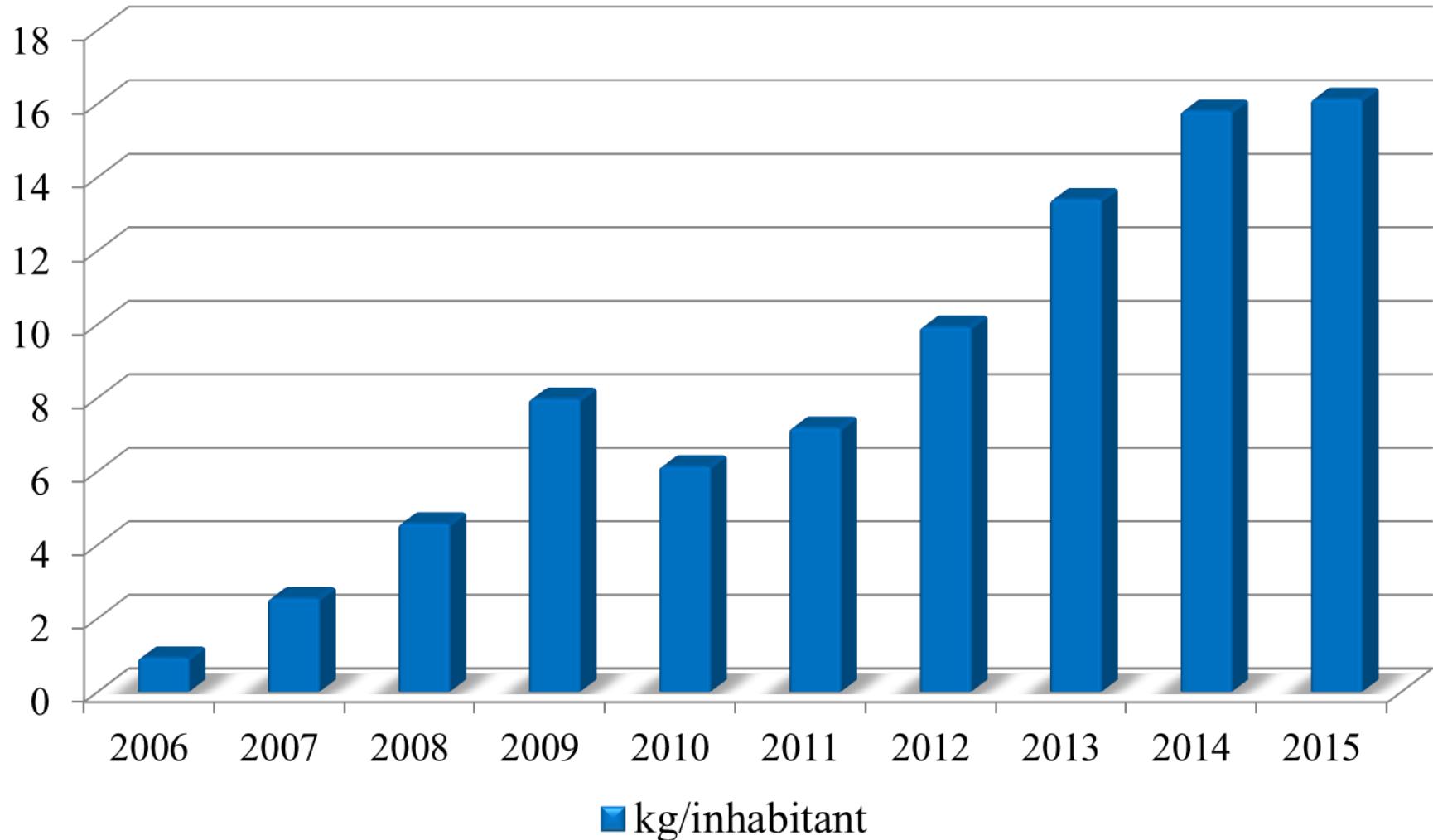
Volume based fees

Bag ≤ 150 l	1,26 €
140 l container	2,34 €
240 l container	2,58 €
370 l container	3,24 €
600 l container	4,62 €
800 l container	5,40 €
1100 l container	7,14 €
2500 l container	16,14 €
4500 l container	24,00 €
5000 l container	36,60 €

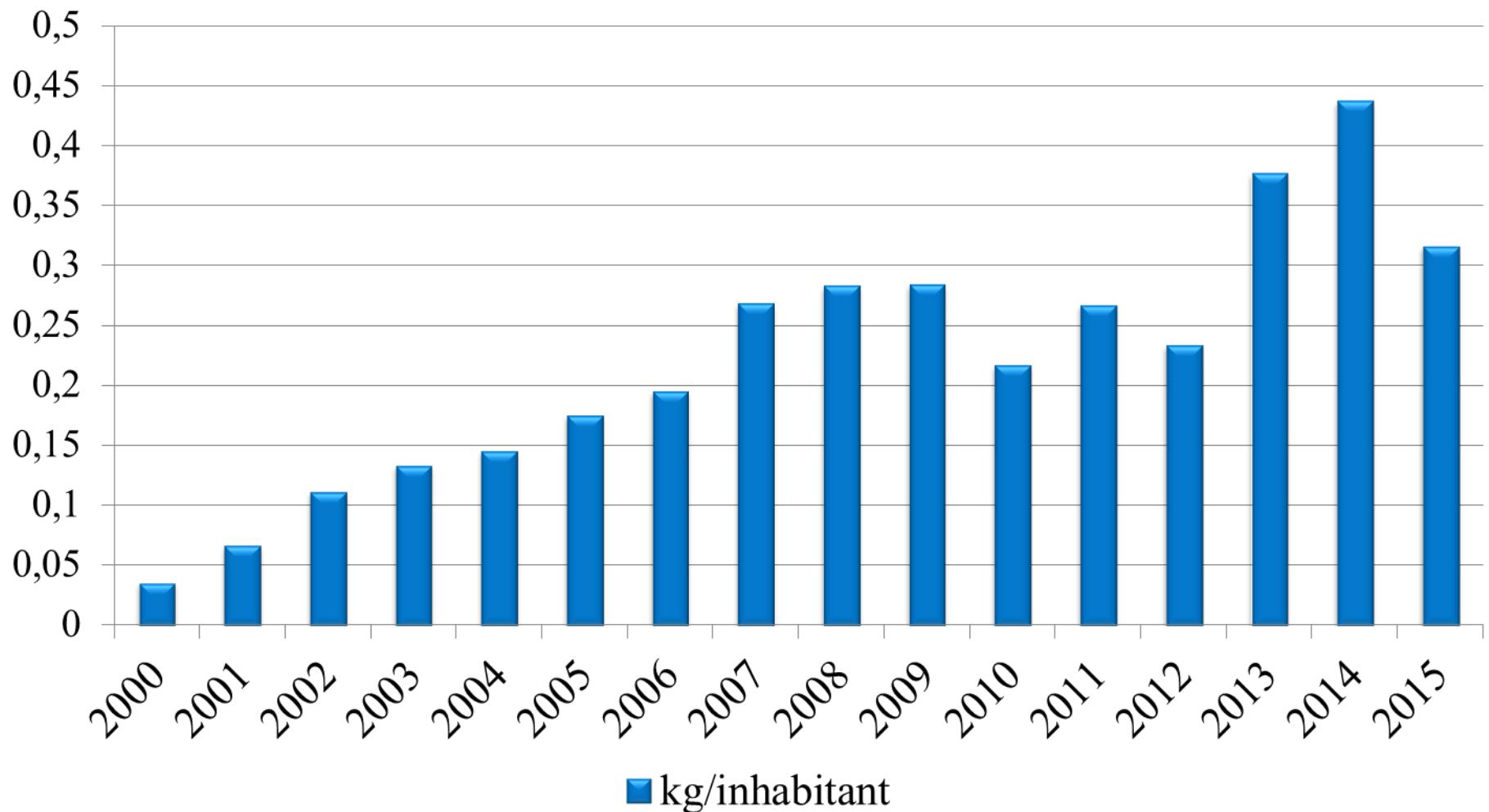
Collection points



Household waste streams collected via CAS



Hazardous household waste collection by behalf of the Municipality



Packaging waste collection

Separate collection and recovery of packaging waste is under the producer responsibility

274 public packaging waste collection stations

Door-to-door with bags and bins (not mandatory)



Deposit refund system

The collection through reverse vending machines and treatment of deposit packaging - Eesti Pandipakend Ltd (since 2005)



The deposit was 0,04 - 0,08 € / package (until 2015) and now 0,10 € / package

Plastic and glass capture rate is up to 87%

Metal capture rate is up to 62%





Supervision

The city actively supervises compliance with the requirements of the Waste Management Regulation.

A register of waste generators was established for supervision purposes which contains the data of all waste generators and waste management contracts.

A reminder is sent to a waste generator when it becomes evident that they have not entered into a contract for door-to-door waste collection. Substitutive enforcement is implemented if the contract is still not entered into and the city may also impose a fine on the waste generator.



Collection bins for textile and clothing waste

The city has installed 22 containers for the collection of textile and clothing waste through which usable clothes are reused.

Approximately one ton of clothes per month is collected from each container.



Awareness raising campaigns

Public campaigns

- Waste Wolf (“Prügihunt”)
- Maintenance Month of Tallinn (“Heakorrakuu”)

Publicity campaign on TV

Publicity campaign in a local newspapers

Website and social networks

Helpline

Private sector’s assistance





Thank you for listening!