

Lisbon`s Electronic Waste Management

4^a Conferência "Cidades Inteligentes Cidades do Futuro" 30th november 2016







- Waste Management Lisbon's Main Figures
- Waste Collection Systems
- Innovation and technological development as Strategic Goal
 - **Expected Results/Outputs**







Resident population 552 700 inhab.

Total population = **2x** Resident population

≈ 100.000 companies



3

1 Waste Management Main Figures

- **1050** Workers
- 219 Collection trucks
- 183.404 Bins
- 134 Collection routes /day
- 100 km/day per route
- 800 t/day urban waste
- 23% Selective collection rate











LISBOA









67% Door-to-door collection



Municipal plastic bags 30 litres

- Downtown / historic zones
- Big waste producers



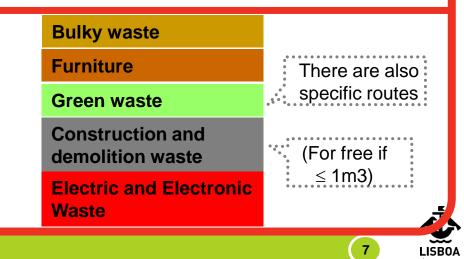
Waste Collection Systems 2





Collection by request / on demand





LISBOA







 Sensors for underground containers and other collective bins

- Waste Management Plataform using RFID technology and GPS on vehicles



New Information Technologies in Waste 3 Management

Monitoring on real time (WHEN and WHERE?)



LISBOA





Reduce Costs: Fuel and vehicles maintenance

- Adjusting the collection frequency to the real services needs
- Simplification of the routes planning



11





Sustainable and clean city

Less Carbon Emissions



12





Increase Recycling Rate



Minimising Municipal Mixed Waste generation



13





Improve the data quality



Implementation on the PAYT model



14



SMART PROJECTS FOR SMART CITIES

The future...

Available information for the citzens

Integrate this platforms (sensors, COI and GIS) with others to help us to do it better



15

Thank You!

Lisbon Waste Department

http://www.cm-lisboa.pt/viver/limpeza-urbana

dmhu.dhu@cm-lisboa.pt

Victor Vieira (Director of Waste Department) vitor.vieira@cm-lisboa.pt

Celeste Oliveira celeste.oliveira@cm-lisboa.pt



