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# DATA AND THE CITY

### Lisbon City Council Lisbon Urban Management and Intelligence Center

João Tremoceiro

# **GLOBAL CHALLENGES FOR THE CITIES**



2% of the Earth surface is occupied by cities



70% of world population will life in cities by 2050



75% of world energy is used in cities



80% of CO2 emissions are produced in cities

## **METROPOLITAN AREA**

Population: 2.821.349

Area: **3.015,24 km<sup>2</sup>** 

## LISBON

Area: **100,05 km<sup>2</sup>** Population: **504.964** Daily commuters: **aprox. 500.000** Vehicles entering daily in Lisbon: **370.000** Tourists: **5 million/year e 11 million** overnight stays

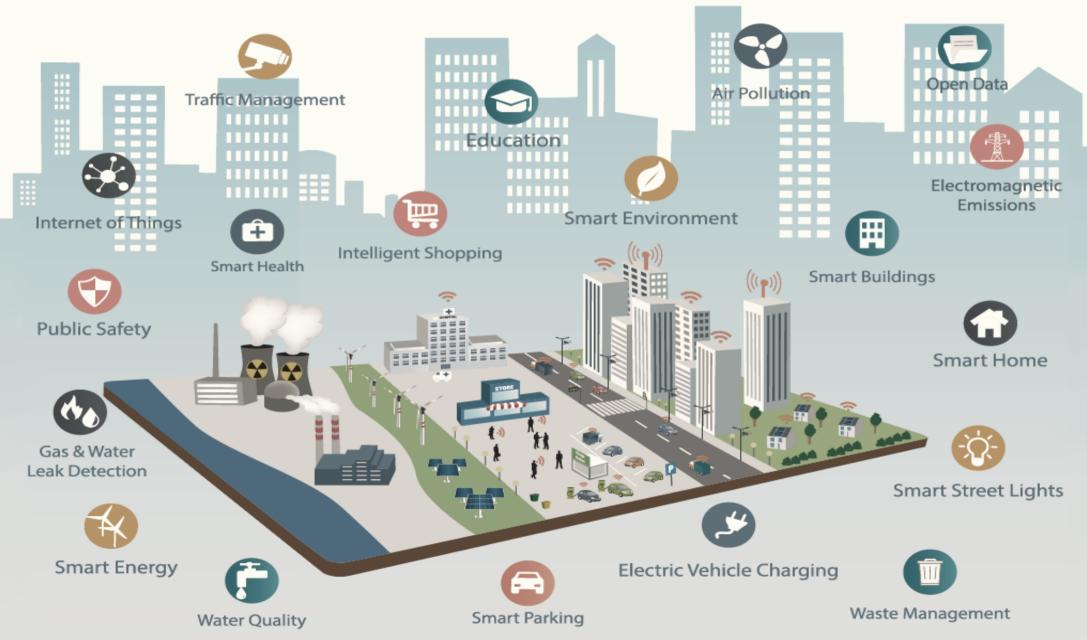




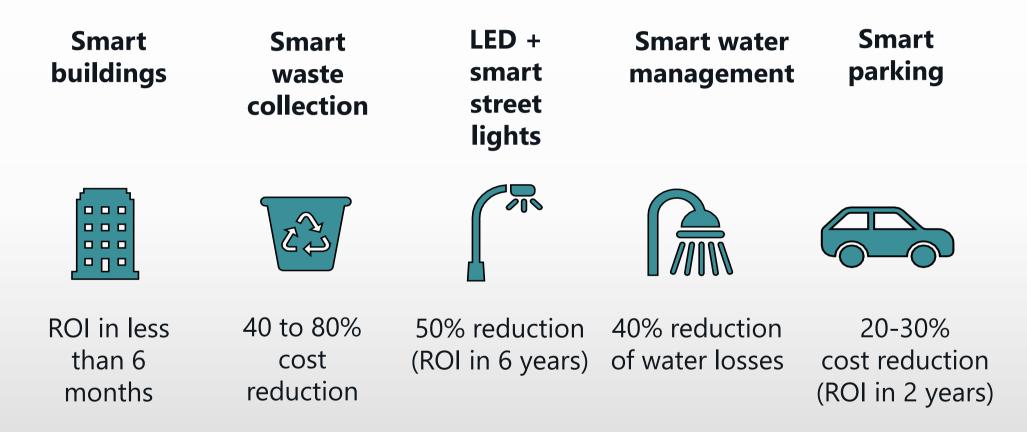
Services available at any time, everywhere, through any device

## **SMART CITY**

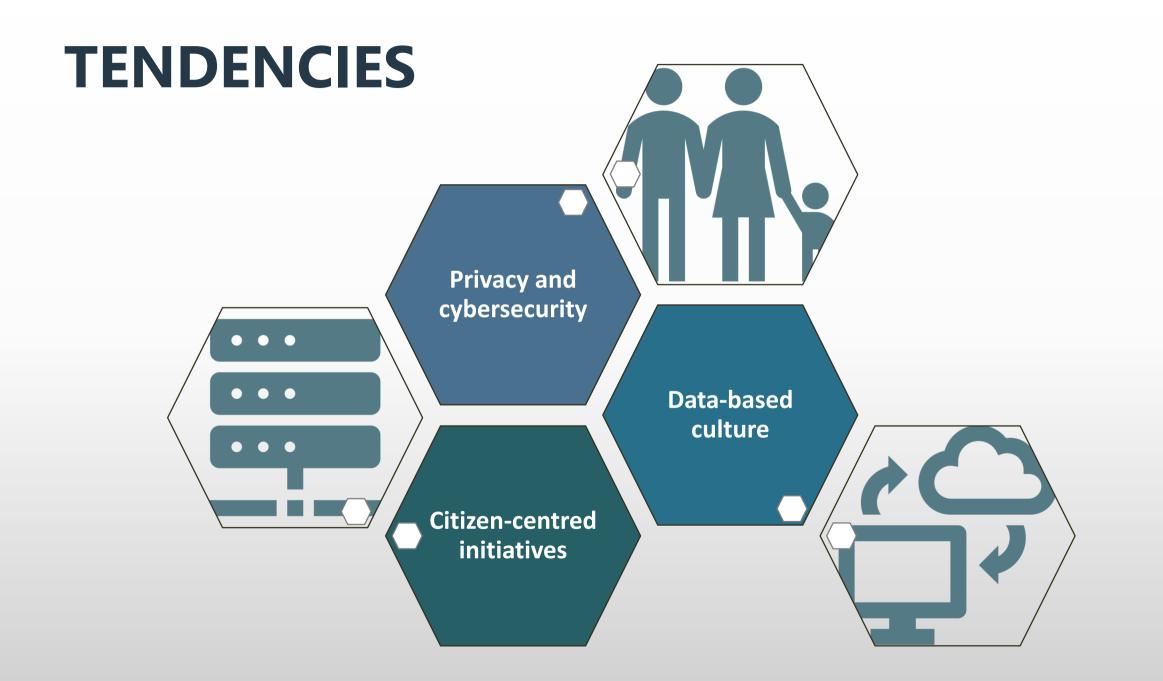




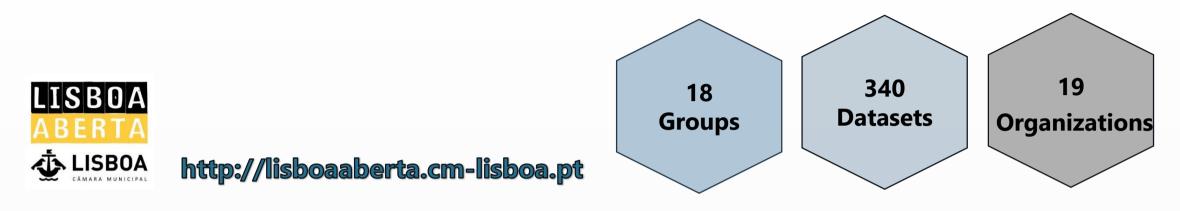
### **VERTICALS IMPLEMENTATION PHASE**

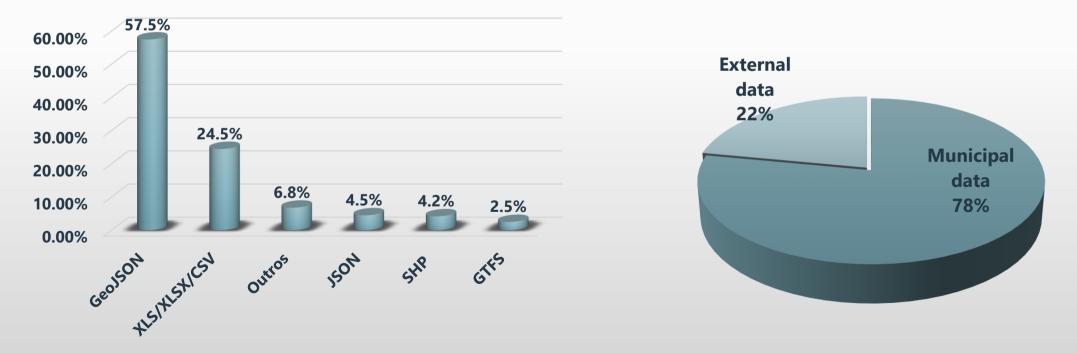


Source: IDC



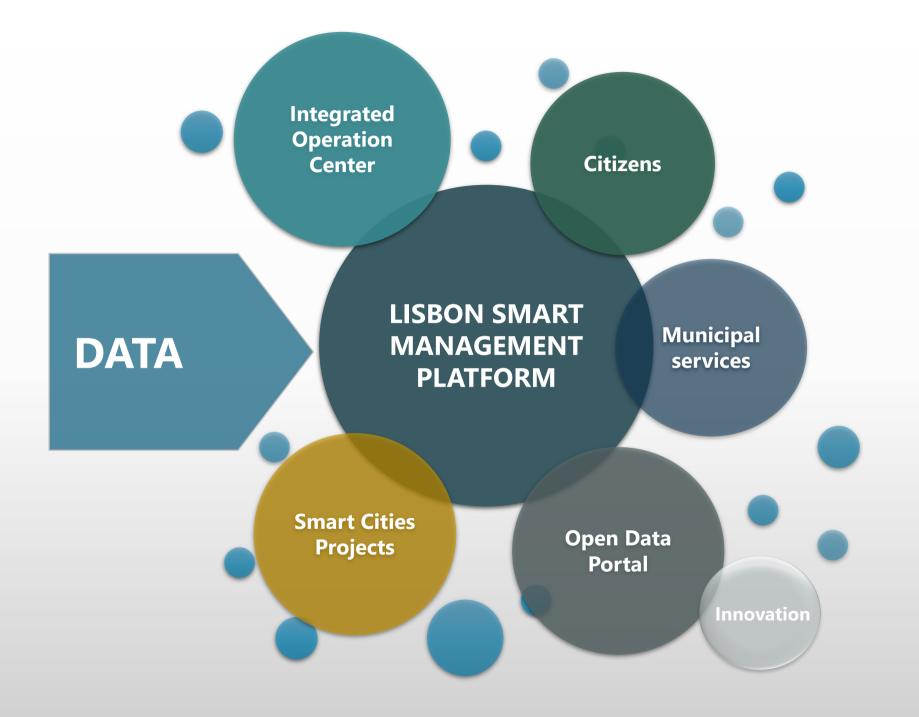
### **OPEN DATA PORTAL**





# Lisbon Smart Management Platform

MORE EFFICIENT MANAGEMENT OF RESOURCES NEW AND BETTER SERVICES PROVIDED TO THE CITIZENS SHARING OF INFORMATION PROMOTING TRANSPARENCY AND INNOVATION



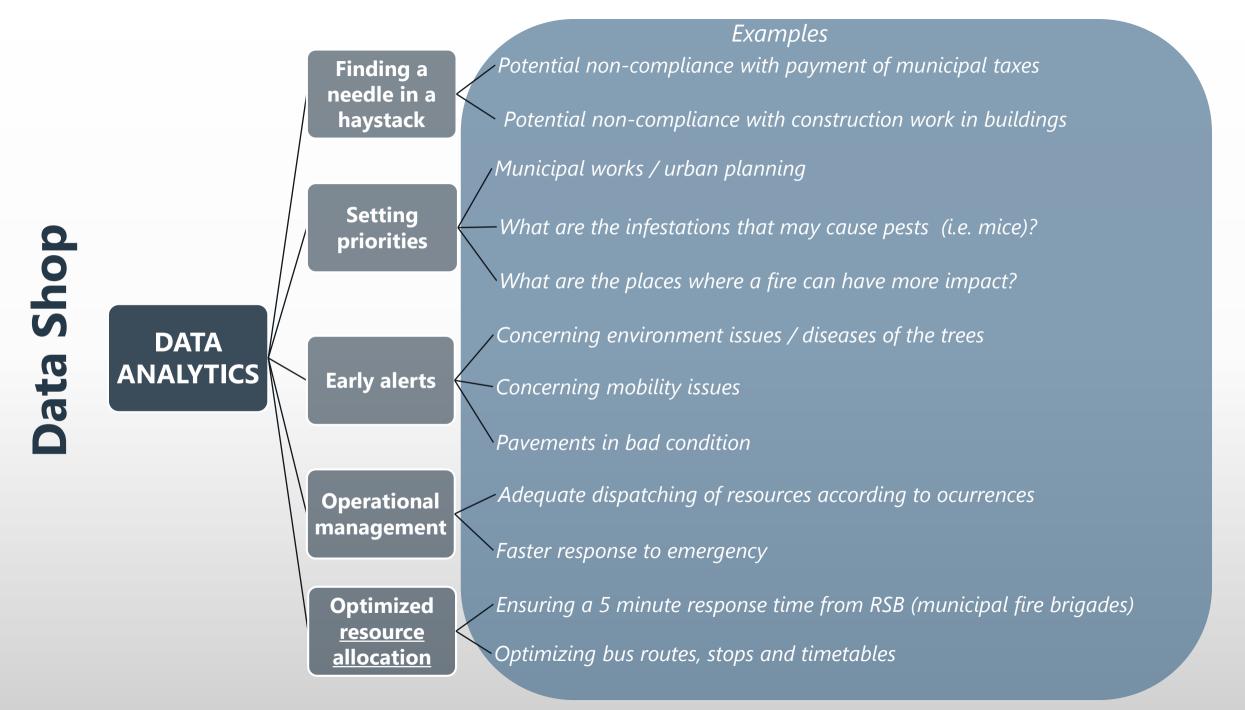
### DATA ANALYTICS CAN BE USEFUL...

- If operation decisions are based on insufficient information
- When it is difficult to find unusual data among big data
- When it is necessary to define priorities on a large volume of data
- When important decisions on the allocation of resources are taken based on insufficient information
- Whenever services are reactive instead of being proactive



# DATA SHOP Mission

Collaborate with municipal services in the development of a data-driven management culture that promotes efficiency, innovation and transparency



## LISBON URBAN DATA LAB

#### MISSION

Creating analytic solutions based in big data capable of improving planning, operation and emergency management in the city of Lisbon, contributing to the sustainable improvement of resilience and quality of life of the people who live or work there and also to those who visit Lisbon.

#### PARTNERS

- Faculdade de Arquitetura
- Faculdade de Ciências
- ISCTE
- ISEL
- IST
- LNEC
- NOVA FCT
- NOVA IMS
- NOVA SBE
- Universidade Católica

# **City Council**

(analytics data and tools)

#### Relevant Stakeholders

(data and innovation)

#### Academy

(knowledge and innovation)

# CHALLENGES

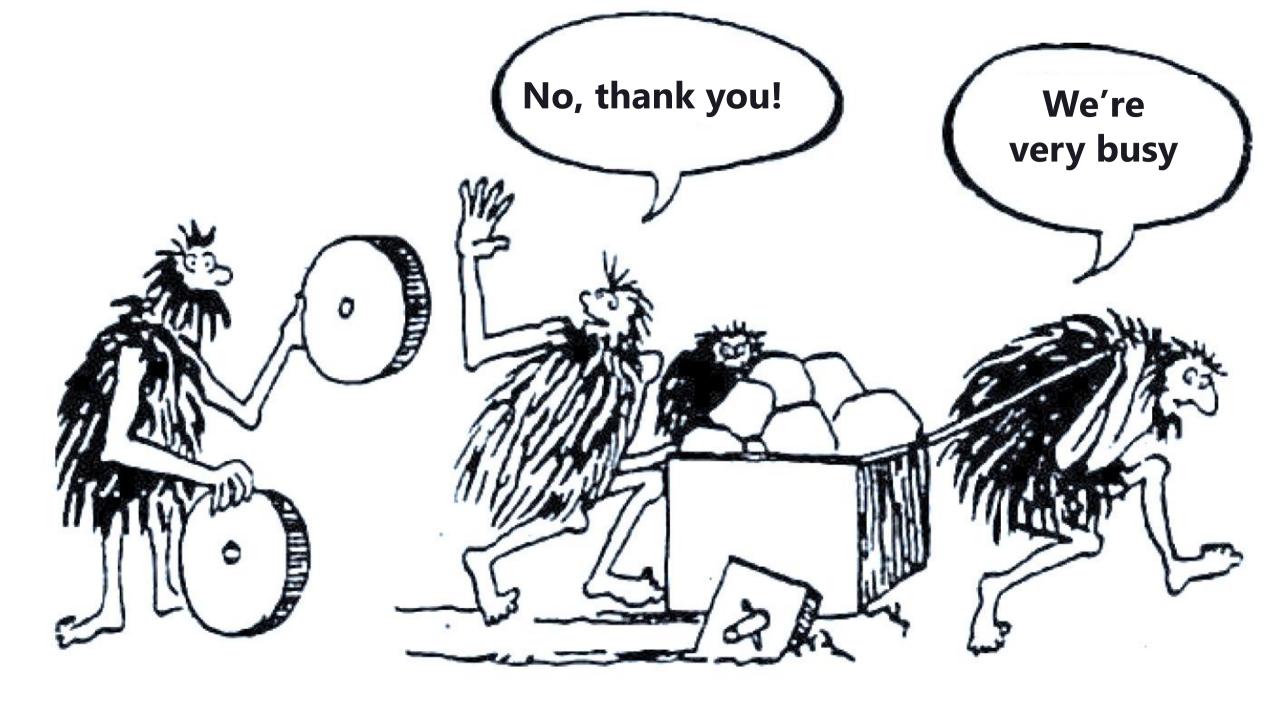
Switching to data driven organization

Lack of qualified human resources

The management of large volumes of data with different origins, formats and uses



"Enough with all the strategic planning. Get out there and kill something."



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# Thank you.

https://lisboainteligente.cm-lisboa.pt/

http://lisboaaberta.cm-lisboa.pt

⊠ lisboa.inteligente@cm-lisboa.pt