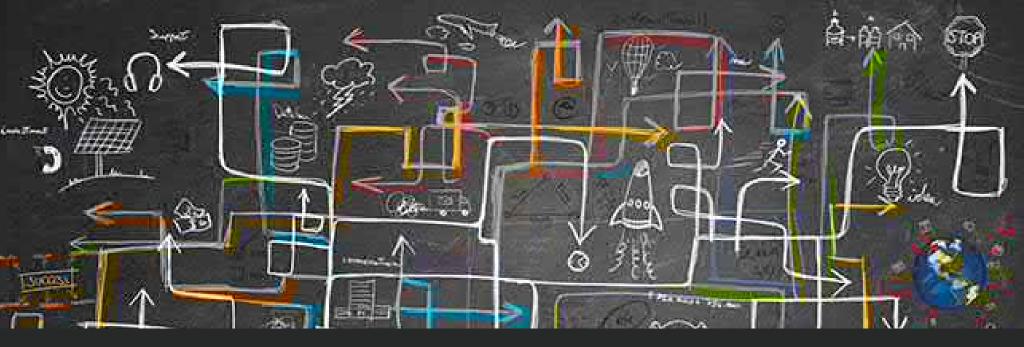


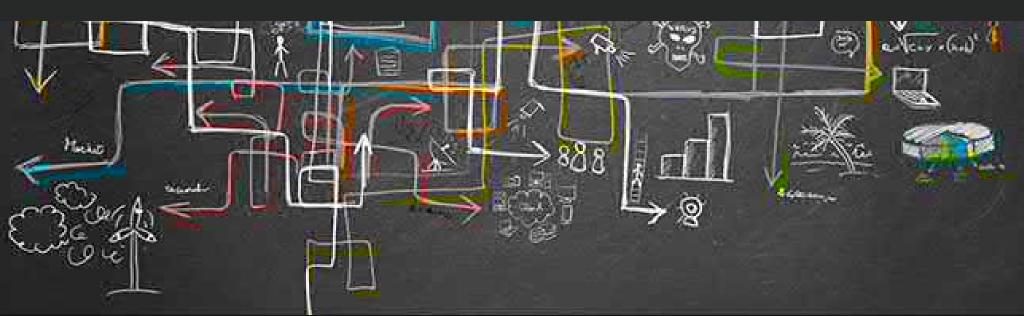
CENTRO OPERACIONAL INTEGRADO DE LISBOA

INTEGRATED OPERATIONAL CENTER (IOC) LISBON ON THE SMART CITIES ROAD





THE NEED FOR AN INTEGRATIVE PLATFORM TO DEAL WITH THE COMPLEXITY OF A MODERN CITY



INFORMATION TO BE INTEGRATED

1. MUNICIPALITY'S INTERNAL SYSTEMS

e.g.: video, traffic, resource management, risk analysis, georeferenced information

2. EXTERNAL PARTNERS' SYSTEMS

+20 partners (utilities, public transportation, government)

3. SENSORS

Smart cities iniciatives

4. INTERNET

Web sentiment, social networks, media, etc.

- Adoption of open protocols and standards
- Growth capacity
- Low cost for systems integration
- Integration of legacy systems
- Reduction of dependence on single suppliers
- Web platform available on desktop and mobile
- Big data and analytics capability

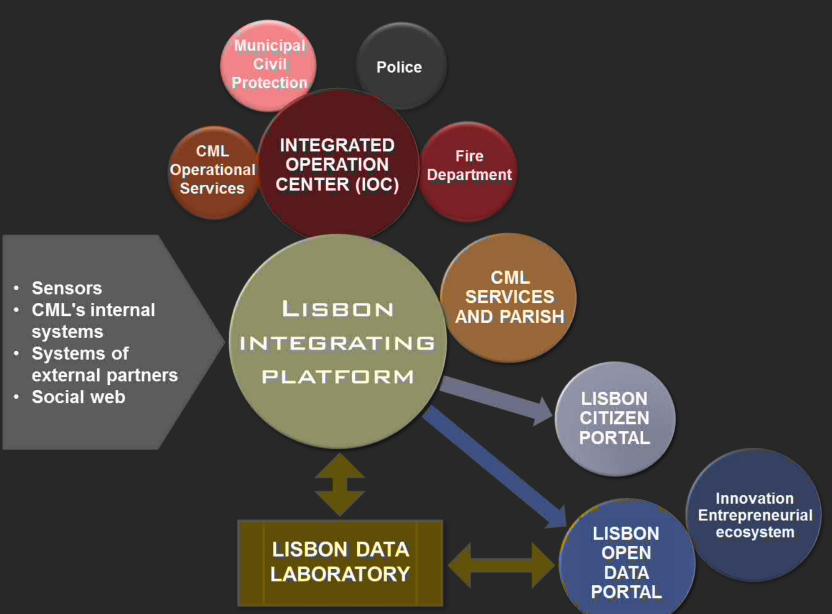
MAIN
FEATURES
OF THE

PLATFORM

- External partners who provide data 40
- Number of users simultaneously 60,000
- CCTV Cameras 200
- Speed Sensors 60
- Variable Message Panels 30
- Air Quality Sensors 20
- Noise Sensors 30
- Temperature, Humidity and Wind Sensors 30
- Waste Container Level Sensors 3,000
- Radio terminals 1,300
- Vehicle frequency sensors 800

SOME PLATFORM NUMBERS

LISBON INTEGRATING PLATFORM AS A DRIVER FOR MODERNIZATIONS AND INNOVATION

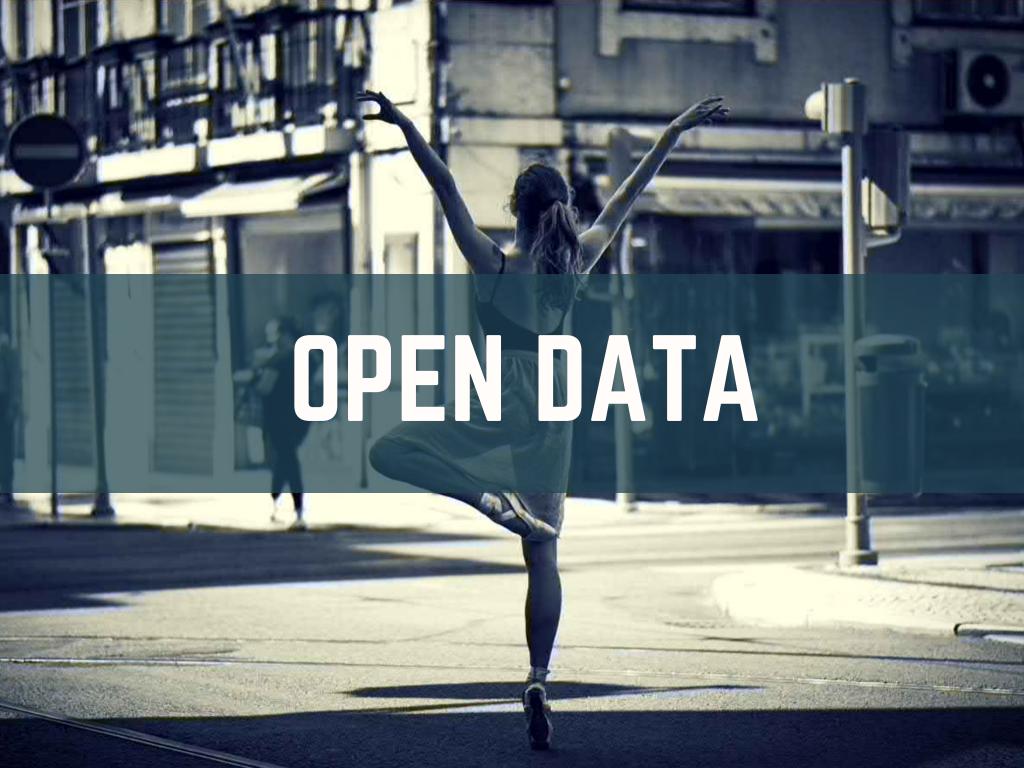


INTEGRATED OPERATING CENTER (IOC) MISSION

Ensure an intelligent management of the city through monitoring, forecasting, and operational management of all activity with implications on the safety, prevention, emergency response and quality of life.

ORGANIZATION OF THE IOC







WHAT IS THE VALUE OF OPEN DATA

By 2020 in the EU

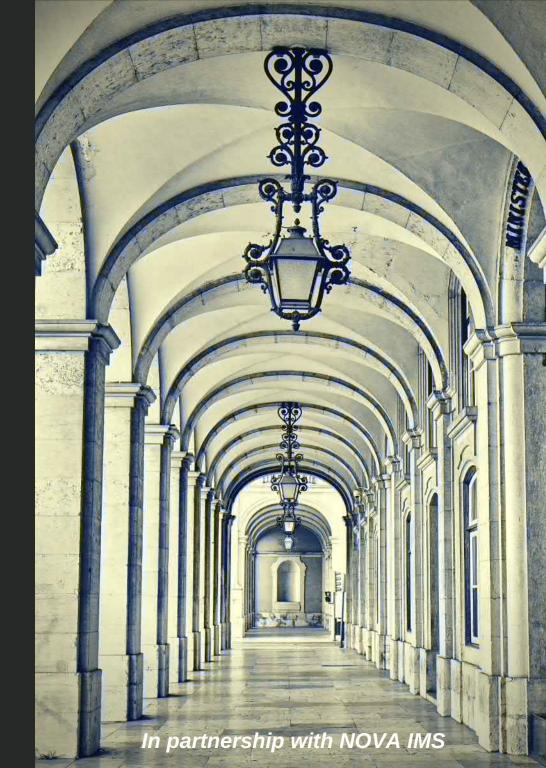
- Market value of EUR 75,7 billion
- Creation of 100,000 jobs
- Savings of EUR 1,7 billion in the reuse of data in public administration

CHARTER OF PRINCIPLES FOR OPEN DATA

APPROVED IN APRIL 2016

Aims to promote...

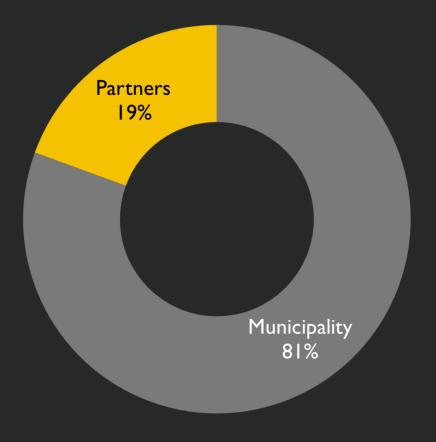
- Active participation of citizens
- Transparency
- Economic development
- Service and efficiency improvement
- Data with open license, machinereadable and free of charge



DATA IN THE "LISBOA ABERTA" PORTAL

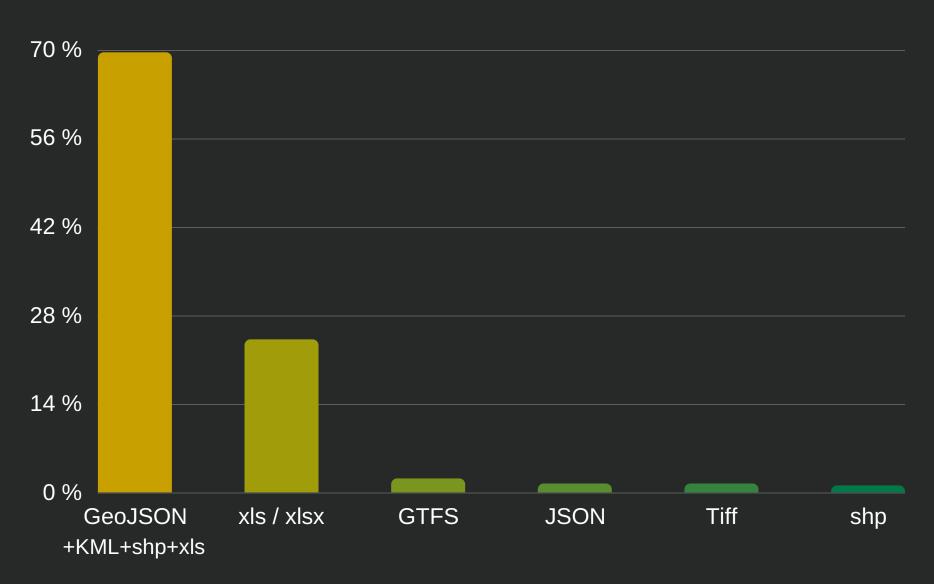
http://dadosabertos.cm-lisboa.pt

- 370 datasets
- Data from 13 different organizations
- Data organized in 18 different themes



DATA IN THE "LISBOA ABERTA" PORTAL

http://dadosabertos.cm-lisboa.pt



EXAMPLES OF DATA ALREADY IN THE PORTAL

- Formation of new companies
- Occupancy rates by type of hotel establishment
- Municipal director plan
- Geological surveys
- Public car parks and EMEL parking meters
- Lisbon's pedestrian map and pedestrian potential map
- Charter of solar potential of Lisbon

- Kiosks, newsstands, automatic public toilets
- Temporary occupations of public space (next 5 days)
- Circuits for the collection of municipal waste
- Cycle routes of the City of Lisbon
- Parks, gardens, playgrounds and outdoor fitness
- equipment
- School Population
- Timetables and public transport routes



IMPLEMENTATION OF THE INTEGRATED OPERATIONS CENTER

(NOT ONLY A TECHNOLOGY MATTER)

PROMOTE THE REUSE OF DATA

(OPEN DATA AND IOC DATA)

CHALLENGES

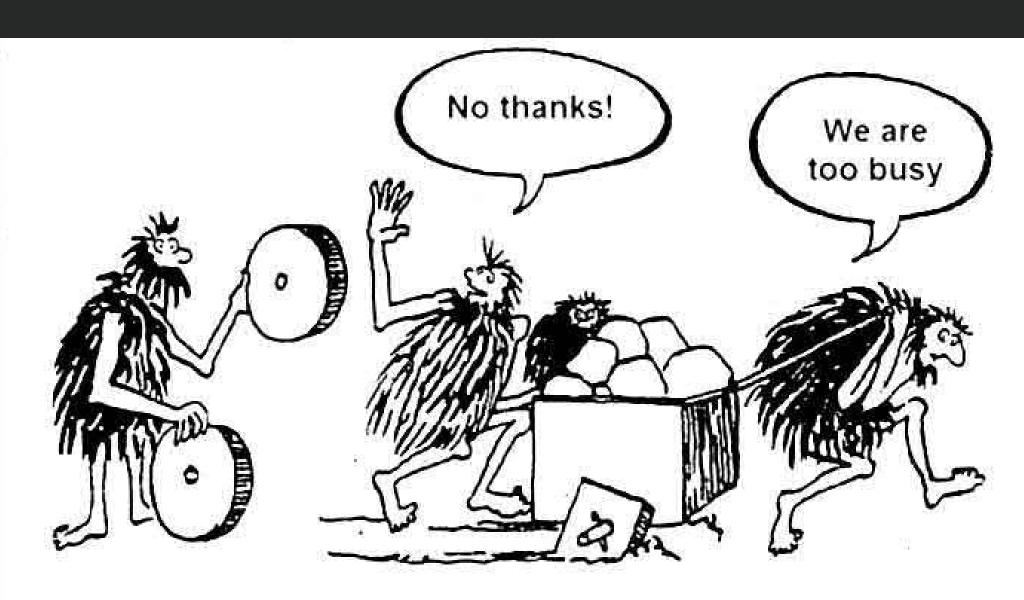
QUANTITY AND
QUALITY OF THE
DAT

ENSURING SUSTAINABLE
DEVELOPMENT OF
IOC'S PLATFORM

(E.G.: VENDOR LOCK-IN, SECURITY, RIGHT TO PRIVACY)



GRAB THE OPPORTUNITY



THANK YOU

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