# PORTO, PORTUGAL

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daniel c. moura









# Porto's Vision

- "Smart City" projects developed at a Urban Scale, corresponding to a step further regarding the district level strategy followed by the majority of European cities.
- The citizen is at the centre of smart decision making, promoting data driven decision making.

Porto

- Integrated vision of the management and operability of the city.
- Economic development and Job creation.





## City Operator and Infrastructure

- Develop a Urban Platform that integrates data flows within and across city systems;
- Enable the city to shift from fragmented operations to include predictive effective operations, and novel ways of engaging and serving city stakeholders;
- Promote an efficient data compilation and analysis with an impact on the living conditions and wellbeing of the city;
- Improve initiatives outcomes at local level and create a new level of integrated management services.



# Main Areas





## TRAFFIC MANAGEMENT SYSTEM

- 294 illumination equipment
- 128 have a remote control system with GERTRUDE software
- A total of 979 traffic sensors
- The system is implemented in 10 subareas, interlinked to a central server through a dedicated communication network.
- Porto has full actuated traffic lights, with traffic sensors in all the roads of intersection and semi-actuated traffic lights.

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## VEHICULAR NETWORKING

#### MAIN GOALS

- vehicle-to-vehicle and vehicleto-infraestructure connectivity
- provide Wi-Fi access to taxi and bus passengers
- get data from the vehicle's OBD unit
- Mobility Scanner





# Integrated Management Centre





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FutureCities sensors data in NGSI: Environment and Traffic events



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## **NEXT STEPS**

New infrestructures and projects:

- 1000 Ibeacons in bus stops
- 250/500 lbeacons in the city centre
- Cameras and images analytics for parking management
- Sensors for parking and traffic management



HealthyRoad

citibrain: EMBERS

Image: Partners in the new solutions

Porto.

# Porto.

## THANK YOU!

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