

URBAN PLATFORM – Innovazione per la trasformazione delle città Piattaforme tecnologiche innovative per lo sviluppo della città sostenibile

#### Il dato e le piattaforme urbane: come abilitare l'innovazione Urban platform and data: how to enable innovation

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# Quite seldom we can start from scratch



## Often we start from "..." situation





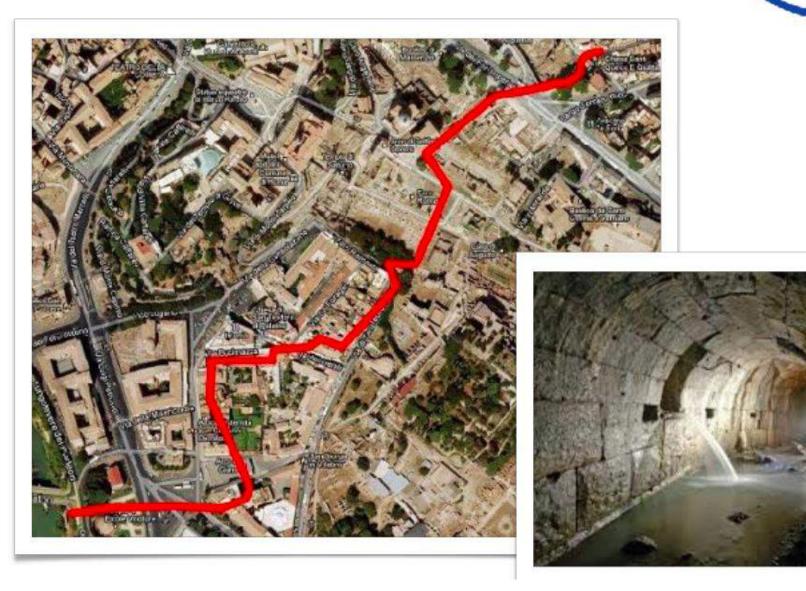
# (in the city) always is matter of infrastructures & data





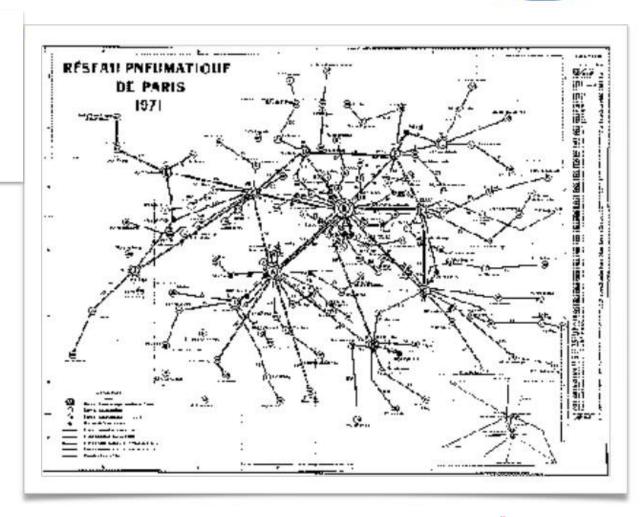


## **Smart Infrastructure - Rome**





## Leveraging on Infrastructures Paris





### Leveraging current Infrastructures - Rome

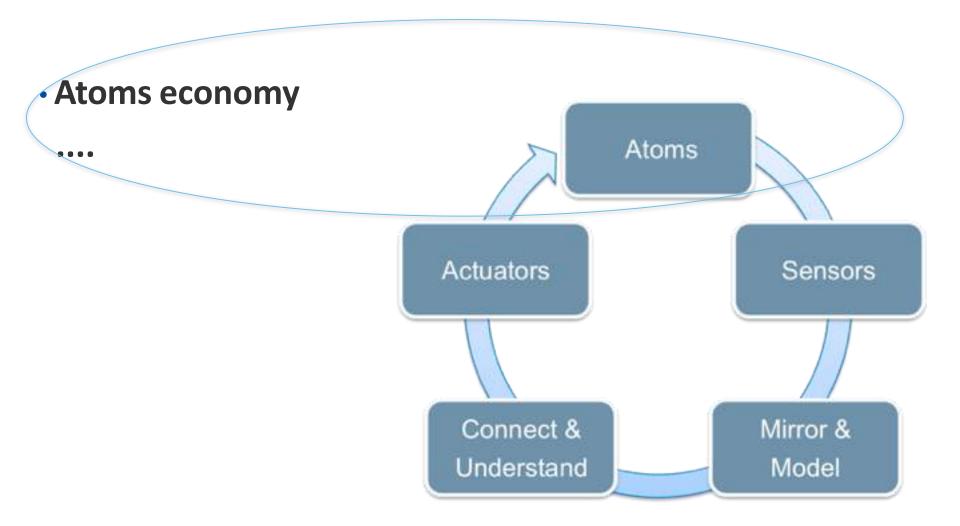




Wireless Network in Rome



#### data



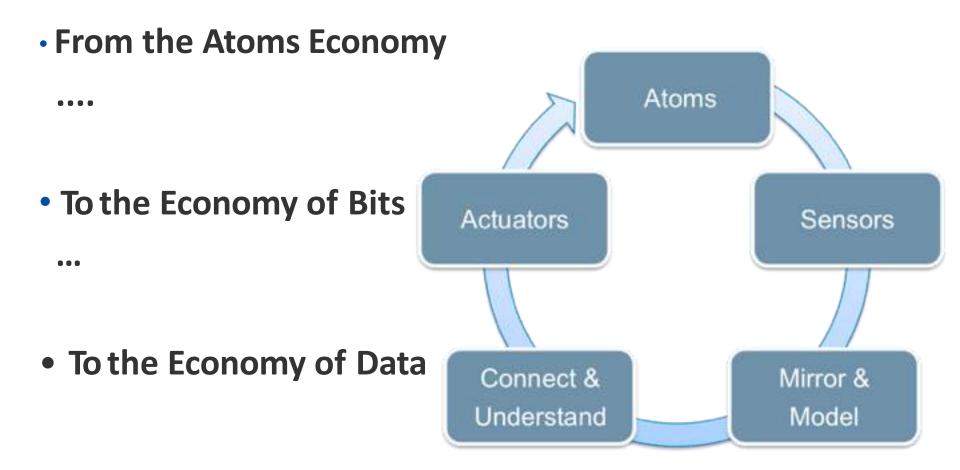


#### data

 Atoms economy Atoms Actuators Sensors **Bits economy** Connect & Mirror & Model Understand



#### data





#### **Smart cities reinvented through Data**



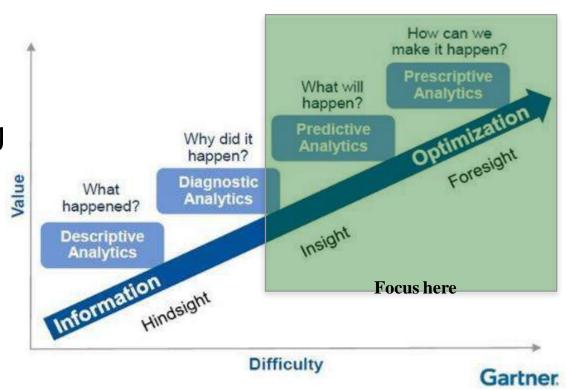


#### **Smart cities reinvented through Data**

From Atoms to Data to Atoms

- Traffic Jam
- Car accident
- It'll get worse
- Traffic re-routing

#### **Exploit Data**





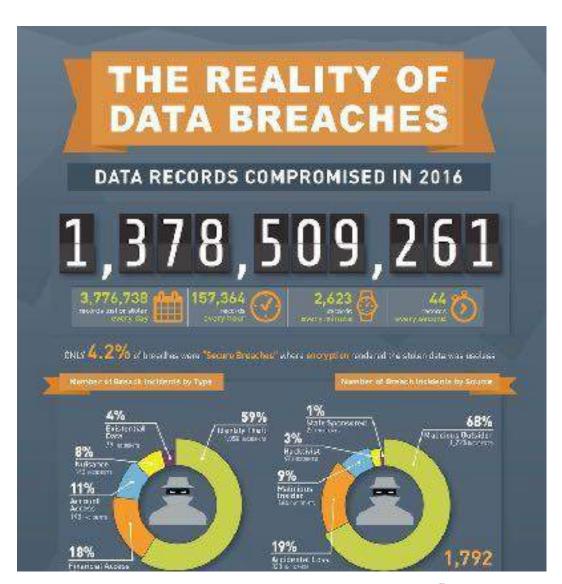
#### Data are valuable ....

Security vs ...

- Privacy

- Ownership

- Accountability





## How to apply Urban Platform?





## Urban platform features

- open
- detects and evaluates available data sources in the city
- exploits and visualizes important urban information accessible through standard APIs
- new innovative map-based urban services
- transforms city knowledge into valuable business insight
- no city lock-in solution, meaning that existing urban services can be easily replicated from one city to another
- no vendor lock-in solution, meaning that stakeholders can use and customize it without any vendor related constraint

## Compliance with...

Standard: FIWARE



 Security: European Cyber Security Organisation (ECSO)

 Things: Alliance for Internet Of Thing Innovation (AIOTI)

Data: Big Data Value Association (BDVA)



## According to...

#### **Global initiatives for Cities:**

Open Agile Smart Cities (OASC)



Global City Team Challenge (GCTC – NIST)





IES CITY Framework







#### In order to have solutions...

- replicable
- portable
- sustainable
- interoperable
- scalable



## A proposal

## **City Enabler for Digital Urban Services**, a FIWARE

based software solution for "crawling, collecting, integrating and rendering on a map" scattered urban data coming from a number of public and private city (data) providers.

CE provides a set of tools to predict through location and to easily develop innovative map based urban services relying on the data collected.













## A proposal

