



 A G E N Z I A   D E L   D E M A N I O

# **SMART INITIATIVES ACROSS ITALIAN CITIES**



*Land Information Systems for Smart Cities*

*Geospatial World Forum 2014*

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## SMART CITIES ARE AN EFFICIENT ANSWER TO ARISING NEEDS

- ONU World Urbanisation Prospect (2009) forecasts that over the next 20 years cities will account for 75% of World GNP, 2/3 of the population and use up 90% of resources.
- This will require new (smart) urban models to strategically manage natural resources, services and mobility, in order to guarantee a higher standard of living, a sustainable development , accessibility to the city life not only for youth but also for the ageing population (i.e. quality of life).



## **INNOVATION IS CRUCIAL AS LONG AS IT ENHANCES PEOPLE'S CAPABILITIES**

- Integrating physical systems with digital technology to serve the needs of the urban population.
- Smart Cities cannot just be a technological challenge but they must, above all, be a social challenge.
- Smart Cities means increase positive aspects of urban living minimizing the negative ones.

## **IT'S AN OPPORTUNITY TO RETHINK THE USE OF URBAN LAND**

- It cannot be a standardized product but rather the outcome of the balance of various factors some of which are unique and non-replicable.
- For this reason a sole and shared definition of Smart City does not exist.
- There are many examples of smart urban solutions but there doesn't seem to be a smart city that can be defined as such in all aspects.



# THE KEY ISSUE FOR AN URBAN SYSTEM TO BECOME SMART IS TO SUCCEED IN BALANCING THE DEVELOPMENT OF URBAN SYSTEMS WITH THE SURROUNDING TERRITORY

- High standard of quality of life and careful use of resources.
- Electricity grid managed by systems which reduce consumption without impairing performance.
- Transport systems which provide ease of movement integrating traffic information and different means of transport.
- Remote control and sensors to manage lighting, water supply, garbage collection and safety.



# OVERVIEW OF THE SMART INITIATIVES IN ITALIAN CITIES

## MILAN

**Population (2013): 1,262,101 Area: 182,07 Km2**

The main goal of the Milan Smart City initiative, promoted by Milan City Council and the Chamber of Commerce, is to involve the most important players of the urban development of the city in setting up a strategy to transform Milan into a Smart City. (Source: ANCI – Osservatorio Nazionale Smart Cities)

<i>Smart Mobility</i>	<i>Smart Environment</i>	<i>Smart Economy</i>	<i>Smart Living</i>	<i>Smart People</i>	<i>Smart Governance</i>
<ul style="list-style-type: none"> <li>• No traffic zone (C Area)</li> <li>• Ad hoc technologies and portals-specific applications for public transports</li> <li>• Bike sharing</li> <li>• Apps for taxi search, etc.</li> <li>• CONVERSE project</li> </ul>	<ul style="list-style-type: none"> <li>• “Intelligent waste bin” Project</li> <li>• SMART IP: integrated public illumination system</li> <li>• DOMO GRID system</li> </ul>	<ul style="list-style-type: none"> <li>• “Let’s do business” portal</li> <li>• Legacy EXPO project</li> <li>• Digital Ecosystem</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated system of different services for tourists</li> <li>• Nonbinding agreement with the City for the set up of a network of museums</li> </ul>	<ul style="list-style-type: none"> <li>• LIA project</li> <li>• READT application</li> <li>• AMBROGIO project</li> <li>• Crowd-funding platform</li> </ul>	<ul style="list-style-type: none"> <li>• Easy-ME project</li> <li>• ICARO project</li> <li>• GeoSchool service</li> <li>• MOC project (Main Operation Centre) for the EXPO</li> </ul>



# TURIN

**Population (2013): 872,091 Area : 130,17 Km2**

The City of Turin, thanks to the stimulus given by the European policies and to its long experience in integrated and strategic planning, wants to reshape the process of urban development by promoting a sustainable, intelligent and inclusive vision of its territory. (Source: ANCI – Osservatorio Nazionale Smart Cities)

<i>Smart Mobility</i>	<i>Smart Environment</i>	<i>Smart Economy</i>	<i>Smart Living</i>	<i>Smart People</i>	<i>Smart Governance</i>
<ul style="list-style-type: none"> <li>• Bike sharing</li> <li>• Car pooling</li> <li>• Zero emissions</li> <li>• Info mobility</li> <li>• Participated mobility</li> <li>• Green emissions for goods delivery</li> <li>• Information initiatives on smart mobility</li> </ul>	<ul style="list-style-type: none"> <li>• Partner SCI network – sustainable building and innovation</li> <li>• URBAN BARRIERA programme</li> <li>• CIVIC LAB Piazza San Carlo</li> </ul>	<ul style="list-style-type: none"> <li>• Youth Facilitate and Social Innovation</li> <li>• MY GENERATION @ WORK project</li> </ul>	<ul style="list-style-type: none"> <li>• Event “Smart City Days”</li> </ul>	<ul style="list-style-type: none"> <li>• UPTU – It’s up to you platform</li> <li>• Initiative App4Torino</li> </ul>	<ul style="list-style-type: none"> <li>• Dedicated apps</li> <li>• EasyTurin</li> <li>• MyDoctor@Home</li> <li>• At Home Radiology</li> <li>• GerOs Turin</li> </ul>



# **BOLOGNA**

**Population (2013): 380,635 Area: 140,73 Km2**

Bologna has chosen to endorse the process of transformation and innovation of its territory being faithful to its civic tradition. It is doing it through an alliance between the world of academic research, University, enterprises and public administration which enables the City to develop solutions useful to address urban and social issues by making technologies available to its citizens. (Source: ANCI – Osservatorio Nazionale Smart Cities)

<b>Smart Mobility</b>	<b>Smart Environment</b>	<b>Smart Economy</b>	<b>Smart Living</b>	<b>Smart People</b>	<b>Smart Governance</b>
<ul style="list-style-type: none"><li>• CIVITAS Awards</li></ul>	<ul style="list-style-type: none"><li>• PAES – Sustainable Energy Action Plan</li><li>• Agreement with “Enel Sole” firm</li></ul>	<ul style="list-style-type: none"><li>• SO-UP project</li></ul>		<ul style="list-style-type: none"><li>• BazzAPP initiative</li><li>• Im-possible project</li></ul>	<ul style="list-style-type: none"><li>• Digital agenda</li></ul>



# NAPLES

**Population (2013): 959,052 Area: 117,27 Km2**

Naples City Council has started an innovation process by investing resources to develop a data/phonic infrastructure network and a server farm to dematerialize its administrative processes. The next step will be the acquisition of the know-how necessary to develop the new services. (Source: ANCI – Osservatorio Nazionale Smart Cities)

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<ul style="list-style-type: none"><li>• Ci.Ro – City Roving project</li><li>• BIKE-Sharing Naples</li></ul>	<ul style="list-style-type: none"><li>• AQUASYSTEM project</li></ul>		<ul style="list-style-type: none"><li>• OR.CH.E. S.T.R.A. project</li></ul>	<ul style="list-style-type: none"><li>• NAPLES CLOUD CITY project</li></ul>	<ul style="list-style-type: none"><li>• Process for the computerization of administrative procedures</li></ul>





# BARI

**Population (2013): 313.213 Area: 116,20 Km2**

Since a couple of years Bari City Council has endorsed a strong commitment over environmental sustainability by producing its Local Environment Energy Plan (2006) and its Bari Strategic Plan 2015. The Bari Smart City Project is a natural progression of this path and the participation in the Smart City National Observatory represents its framework. *(Source: ANCI – Osservatorio Nazionale Smart Cities)*

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<ul style="list-style-type: none"> <li>• Rechargeable points for electrical vehicles</li> <li>• Bike sharing</li> <li>• CiELo project</li> <li>• Apps for the payment of public transports and parking</li> <li>• Park &amp; ride</li> </ul>	<ul style="list-style-type: none"> <li>• Initiatives for a common politics to decrease carbon emissions</li> <li>• Plant for compost heap</li> <li>• Energy efficiency in school buildings</li> <li>• WTER SAVING FOR DEVELOPMENT project</li> <li>• RES NOVAE project</li> </ul>		<ul style="list-style-type: none"> <li>• INFOCITY project</li> <li>• SICOM project</li> </ul>	<ul style="list-style-type: none"> <li>• Apulian ICT Living Labs project</li> </ul>	<ul style="list-style-type: none"> <li>• Development of e – government and ICT technologies</li> </ul>

