



Ministero dello Sviluppo Economico



Smarter, Sustainable Cities as a source of Growth and Competitiveness

The Smart City Program of the Italian Ministry of Economic Development

Issues

- Growth, Employment, Competitiveness: Smarter Cities and Industrial Policies
- The Italian Perspective
- Policy Into Practice
- International perspectives and cooperation

This arrow marks
the key elements





Section I

GROWTH, EMPLOYMENT, COMPETITIVENESS: SMARTER CITIES AND INDUSTRIAL POLICIES

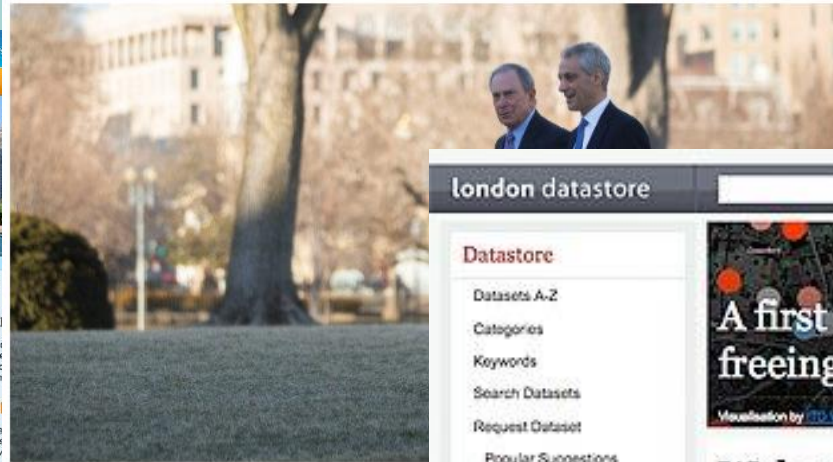
Smarter stands for ... a radical change in Cities' role

Most Innovative Cities

Michael Bloomberg: Cities drive innovation

By Michael Bloomberg @CNMMoney December 15, 2014: 8:32 AM ET

Recommend 1,8k



Michael Bloomberg, left, with Chicago Mayor Rahm Emanuel



City of Chicago The City of Chicago

Home City Services People We Serve

Transparency
Performance Metrics

City Services

I Want To...

- Apply For
- Check Status Of
- Find/Get
- Pay for/By
- Register
- Report/File
- Request
- Sign up for/Volunteer

Keyword Search Services

Advanced Search

Performance Metrics

To make city government more as data available to the public. These standard. In addition, they will pr coming months, we will release n

311 Call

For 311 to be and business representativ calls quickly.

License

To foster bus must ensure reliability and r

Adminis

City administ enhance del effective man facilities, ecu

Health & human Services

The City provides health programs and human services designed to enhance the lives of residents, particularly the most vulnerable, from children to seniors.

313 184 117
TOTAL SHARES

Development

The City promotes community development, small business growth, and access to affordable housing.



london datastore

Search Datastore

RSS feeds

Datastore

- Datasets A-Z
- Categories
- Keywords
- Search Datasets
- Request Dataset
- Popular Suggestions
- Latest Suggestions
- API (beta)
- Blog
- Inspirational Uses
- Useful Links
- 4-P Developers' Fund
- About
- FAQs

A first step towards freeing London's data

Visualisation by [TED](#) using London Transport data

Welcome to the London Datastore

This is where we'll be releasing all of the Greater London Authority's data for all Londoners to see and use free of charge.

Releasing GLA data is just the beginning though and we'll be using our connections and influence to request and capture other public sector organisations into following suit.

[Join the conversation](#) and give us your thoughts and feedback – we want to make this site work for you.

Share with

- facebook
- del.icio.us
- Digg
- Twitter
- StumbleUpon

Latest blog entry

[Boost for London's Software Developer Community and SMEs as Tf lifts all restrictions on commercial reuse of its data](#)

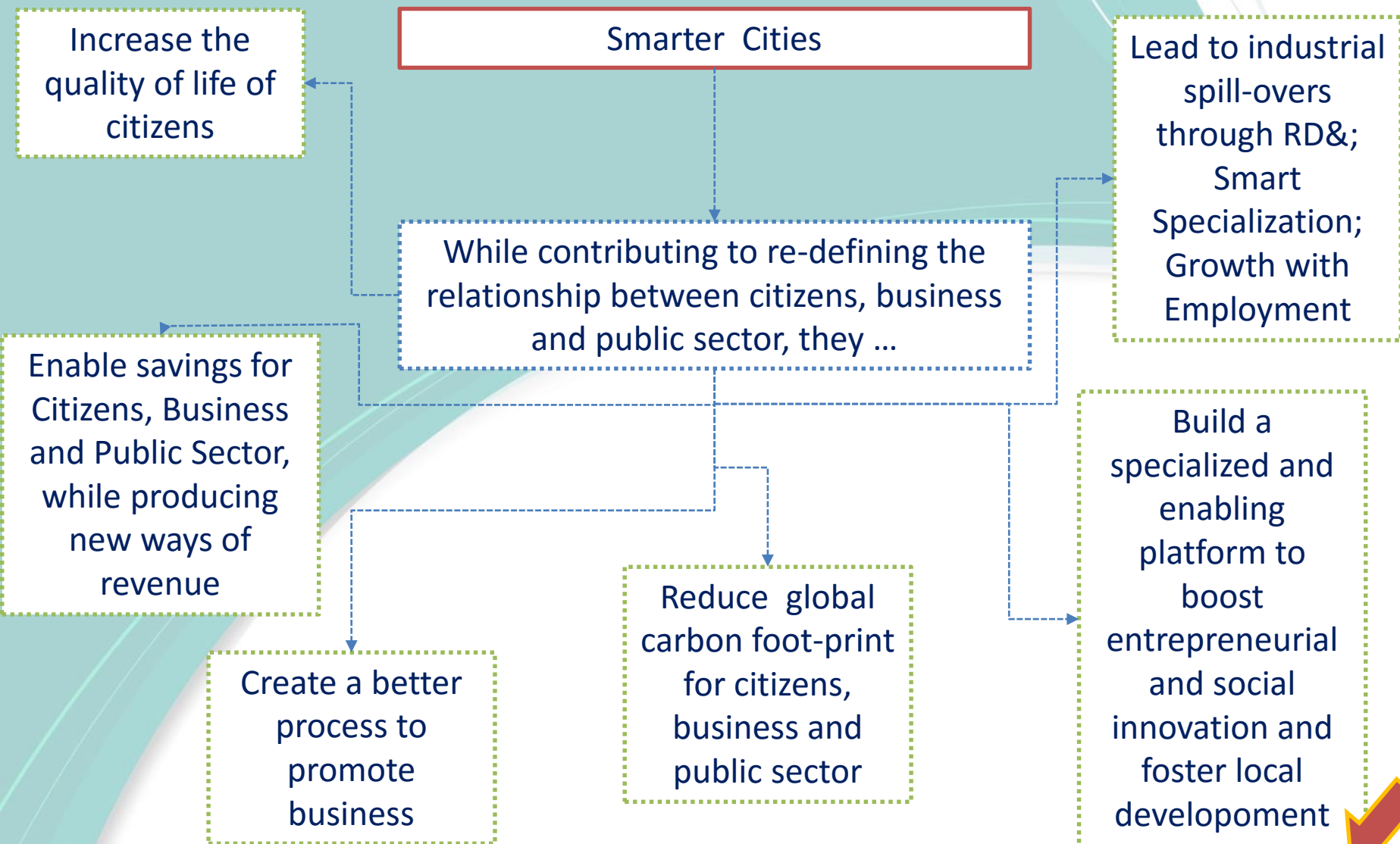
15TH JUNE 2015

Latest Datasets **Popular Datasets**

A holistic approach to build a «Smarter City»

Smart Cities could become a new platform to «promote» our countries' economic and social growth and contribute to the recovery of our economies. Smart Cities will generate innovative services, increase the quality of life of citizens and help business thrive. Cities will become laboratories for a new industrial policy and drive the 4th Industrial Revolution.

So many advantages in becoming «Smarter»...





Section II

THE ITALIAN PERSPECTIVE

You need a vision to maximise your «Internal Return Rate»

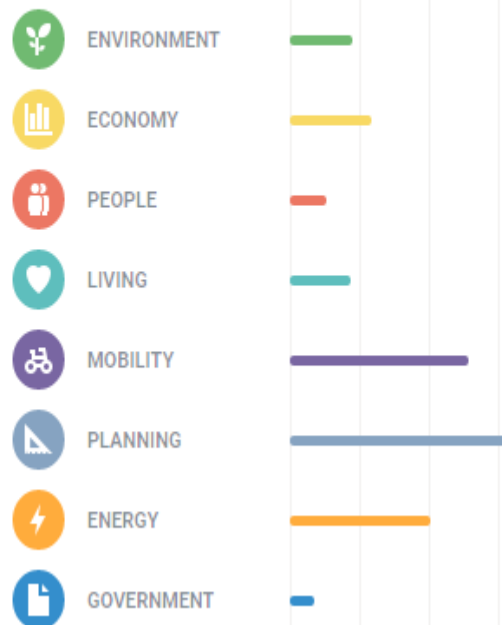
OVERALL SMART CITY
PROJECTS
1308

Citizens involved
15.446.552,084

Municipalities involved
158

Overall Investments at the date in Italy

€ 3.710.158.989



INVESTIMENTI TOTALI	COMUNI COINVOLTI	PROGETTI
€ 289.981.711	83	191

INVESTIMENTI TOTALI	COMUNI COINVOLTI	PROGETTI
€ 376.906.091	53	113

INVESTIMENTI TOTALI	COMUNI COINVOLTI	PROGETTI
€ 171.416.226	58	181

INVESTIMENTI TOTALI	COMUNI COINVOLTI	PROGETTI
€ 283.099.247	76	168

INVESTIMENTI TOTALI	COMUNI COINVOLTI	PROGETTI
€ 820.513.992	80	245

INVESTIMENTI TOTALI	COMUNI COINVOLTI	PROGETTI
€ 1.012.075.377	45	103

INVESTIMENTI TOTALI	COMUNI COINVOLTI	PROGETTI
€ 642.492.459	55	139


INVESTIMENTI TOTALI	COMUNI COINVOLTI	PROGETTI
€ 113.673.883	54	169

A sounder policy framework...

Finally, Smart City came at the very heart of the Italian Policy Making

- *March 2014: **Governmental Delegation for Smart Cities policies** to the Under Secretary of State of the Italian Ministry of Economic Development*
- *September 2015: setup of a **Task Force for the Smarter Cities at the Ministry** of the Economic Development*
- *February 2016 : **First-ever Governmental Directive** on Industrial Policy for Smarter Cities*
- *First half 2016: Kick off of the **National Incentive Scheme for Smarter Cities*** 

... allows the introduction of
an «industrial vision» ...



**Smarter Cities: not only a
mean to improve Citizens'
quality of life and
Business' framework...**



**... but also a specific
context to introduce a
new industrial policy**

Smarter Cities represent for the Italian Government pivotal areas where citizens, companies, administrations will be able to test the effectiveness of innovative, scalable and replicable solutions.

The implementation of the pivotal areas will also represent the ideal setting to promote an experience of "living lab" for citizens and businesses in selected territories, facilitate cooperation processes between large companies and dynamic SMEs and encourage "open innovation" and further exploitation of the products at an international level.

... based upon 6 Enabling Factors *plus* a sustainability model

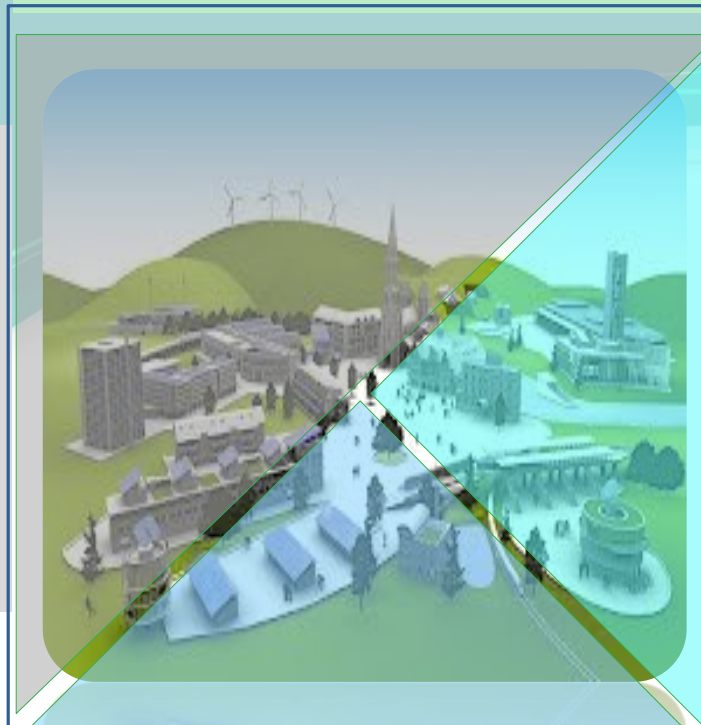
5. Urban Redesign

- Smart management of energy sources and linking
- Integrating Internet Protocol and Smart Metering
- Integrating different energy sources
- Smart mobility
- Smart logistics

- Integrated access to the Internet Wide- and narrow-band adaptative access
- Widespread Sensor Platform
- Internet-of-Everything compliant platform for physical / virtual goods and security services .Widespread of enabling devices (cameras, parking meters, hotspot, wallscreens, smart trash bins etc.)
- Access to Open and Big Data

4. Financial and Regulatory «up-to-date» Tools

1. Smart Grids



3. Digital Services Ecosystems

- Public Private Partnerships
- Energy Saving Companies Integration
- Royalties-friendly schemes for Public Entities, to share revenues from Services
- Integration of supporting schemes belonging to multi-level governance (EU, EIB, National, Regional)

- Digital Public and Private Services
- Access to public and private Services
- Integrate intermediate Goods and Services (under a 4.0 paradigm)
- Open Innovation
- Crowdsourcing

2. Information and Communication Technology enabling and integrated platform

6. Education



Section III

POLICY INTO PRACTICE

Policy into practice

1. Coordinated Policy Drafting

Policy Drafting and Funding Coordination

involvement of National Institutions,
Regions, Cities, European Fund for
Strategic Investment Technical Hub

Private Stakeholders engagement

Policy Guidelines Drafting

2. Standardized Policy Schemes

Enabling

Infrastructures

National Incentive
Scheme for Smarter
Grids

Innovative Digital-enabled Service Ecosystems

National Incentive Scheme for
Innovation Partnership:
Pre-Commercial + Commercial +
Open to Market

One-stop-shop Support Office

for Smarter Cities +
Empowerment Program for
CIO

3. Measurable Impact

Pilot (2016)

14 Smarter Pivotal Areas
in 14 Larger Cities

Follow-up (2017)

Middle-sized Cities +
Networked Smaller Towns

Follow-up (from 2016 on)

Smart Specialization for
International Cooperation +
FDI

Policy measures



Ministero dello Sviluppo Economico



1

SMART GRID ENABLING INFRASTRUCTURES
Will promote energy efficient and connected services and infrastructures, starting from Smart Grid integrated with Ultra Wide Band, Sensors and Big-Data platform.

15 million euros initial endowment to be multiplied x 8/10 times thanks to the European Fund for Strategic initiative

Recipients: Energy Companies and PPP *plus* Telco and IT Companies

2

INNOVATION PARTNERSHIP ON DIGITAL SERVICES ECOSYSTEMS

Will support the spread of services, solutions and devices that improve the quality of life and the business context of the final users , i.e. citizens and companies.

50 million euros will finance 14 Pre-Commercial Contract designed on the basis of Italian Municipalities' needs.

Recipients: IT Companies, Hardware Vendor, R&D Centres



Investments will be multiplied thanks to the involvement of Italian Regional Authorities

Economic lifecycle: simulation



Ministero dello Sviluppo Economico

HP: Implementation of Smart Grids enabling infrastructures on 30% of Larger Metropolitan Areas and deployment of Service Ecosystems on 15% of the population of Larger Metropolitan Areas involved

**Indirect Investment:
+ 700 Mio Euros of Public /
Private Investments**

POLICY
MEASURES

Energy
Companies
+ Telco + IT

Smart
Grids +
Big Data &
Sensors
Layer

11.000 new
jobs

91 Mio Euro
of net value
generated
each year
through
savings
(energy
efficiency)

54 mio (60%)
of revenues
for private
companies



36 mio (40%)
of savings for
Municipalities



30% of savings
to be reinvested
in innovation
each year

Overall 22 mio
euros to be
reinvested in
innovation

100% to be
reinvested in
innovation each
year

IT Companies,
Hardware
Vendors, R&D
Centers

Service
Ecosystems

100 mio euros
of revenues
each year (ext)



10% of
revenues
shared with
Public Sector



**Direct Investment:
50 Mio Euros of Pre-
commercial + TBD Mio
Euros from Public Tenders**



Section IV

INTERNATIONAL PERSPECTIVES AND COOPERATION

Interest for Italy's approach is soaring...



Could lead to stronger cooperation on Smart Cities R&D, Pre-Commercial and Deployment at an international level



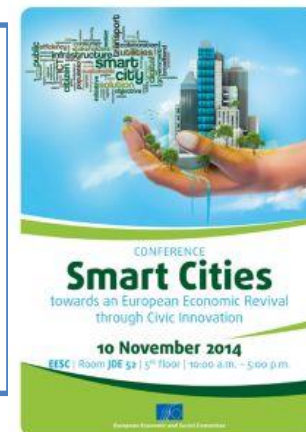
Cooperation on Technology Transfer and International Cooperation among Italian and US Smart Cities within the United States of America «Smart City Challenge Initiative»



Forum on «Shaping Smarter and more Sustainable Cities: Striving for Sustainable Development Goals» (May 18-19, 2016 in Rome)



Drafting of EESC own opinion, largely inspired by the Italian Government policy initiative on Smarter Cities: Smart Cities as a driver of a new European industrial policy: TEN/568 EESC-2015-00586-00-00-AC-TRA [Official Journal of the European Union, C 383, 17 November 2015](#))



... and could lead to even more fruitful international cooperation on Smarter Cities

- Italy will become an «**open innovation Laboratory**» to develop innovative infrastructures and services ecosystem for Smarter Cities
- The **Ministry of Economic Development is ready to support joint-investment initiative promoted by consortiums of Large International Companies and «on the edge» Italian companies**, willing to realise R&D, on-field testing of services and devices and international deployment: recent investments by Cisco (on Corporate Venture), Apple (on Education), Huawei (on Safe & Smart City), testify this opportunity.
- Furthermore, **the Italian Government could partner with other Governements** in order to lead to best-practice transfer and policies coordination.





Thank you for your attention!
For any further enquiry

<http://www.mise.gov.it/index.php/en/documents/smart-city>
smartcity@mise.gov.it