



Forum on
Shaping smarter and more sustainable cities: striving for sustainable development goals
Rome, Italy, 18-19 May 2016

IEEE Smart Cities Initiative

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Outline

✓ IEEE Smart Cities Initiative

- Goals and organization

✓ IEEE Smart Cities Initiative in Trento

- Organization and activities
- IEEE International Smart Cities Conference

IEEE Smart Cities Initiative

a global and multi-disciplinary effort

Started in 2013

<http://smartcities.ieee.org>



Goals

- ✓ create a **vibrant and worldwide cities network**
- ✓ share **knowledge, experience** and **good practices**
- ✓ involve local **governance, universities, industries** and, at first, **local IEEE volunteers**
- ✓ **manage the transition** to urbanization
- ✓ **raise awareness** of the benefits and downsides of technology
- ✓ help guide the **appropriate uses** of technology
- ✓ associate with other **international organizations**
- ✓ establish **IEEE as a thought leader and trusted source** for information on technology related to Smart Cities

IEEE Smart Cities Initiative

Support the evolution of **10 core cities** and a galaxy of **affiliated cities** through:

- ❑ **strategic and practical advice** from a dedicated team of IEEE experts and Working Groups producing white papers on specific topics
- ❑ **education and training** (support for Masters and PhD students, MOOCs)
- ❑ **forum for collaboration** of all entities involved in planning smart cities
- ❑ organization of **workshops** and international **conferences**
- ❑ collaborative **city networks** at a regional/sub-continental scale and involving every city stakeholders

Currently selected cities:

GUADALAJARA (Mexico)

TRENTO (Italy)

WUXI (China)

KANSANS CITY (USA)

CASABLANCA (Morocco)





Trento



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IEEE
Italy Section

IEEE SCI - Trento

VISION:

to be a world-leading **knowledge based city** fostering active and aware **engagement of citizens**, aimed at developing:

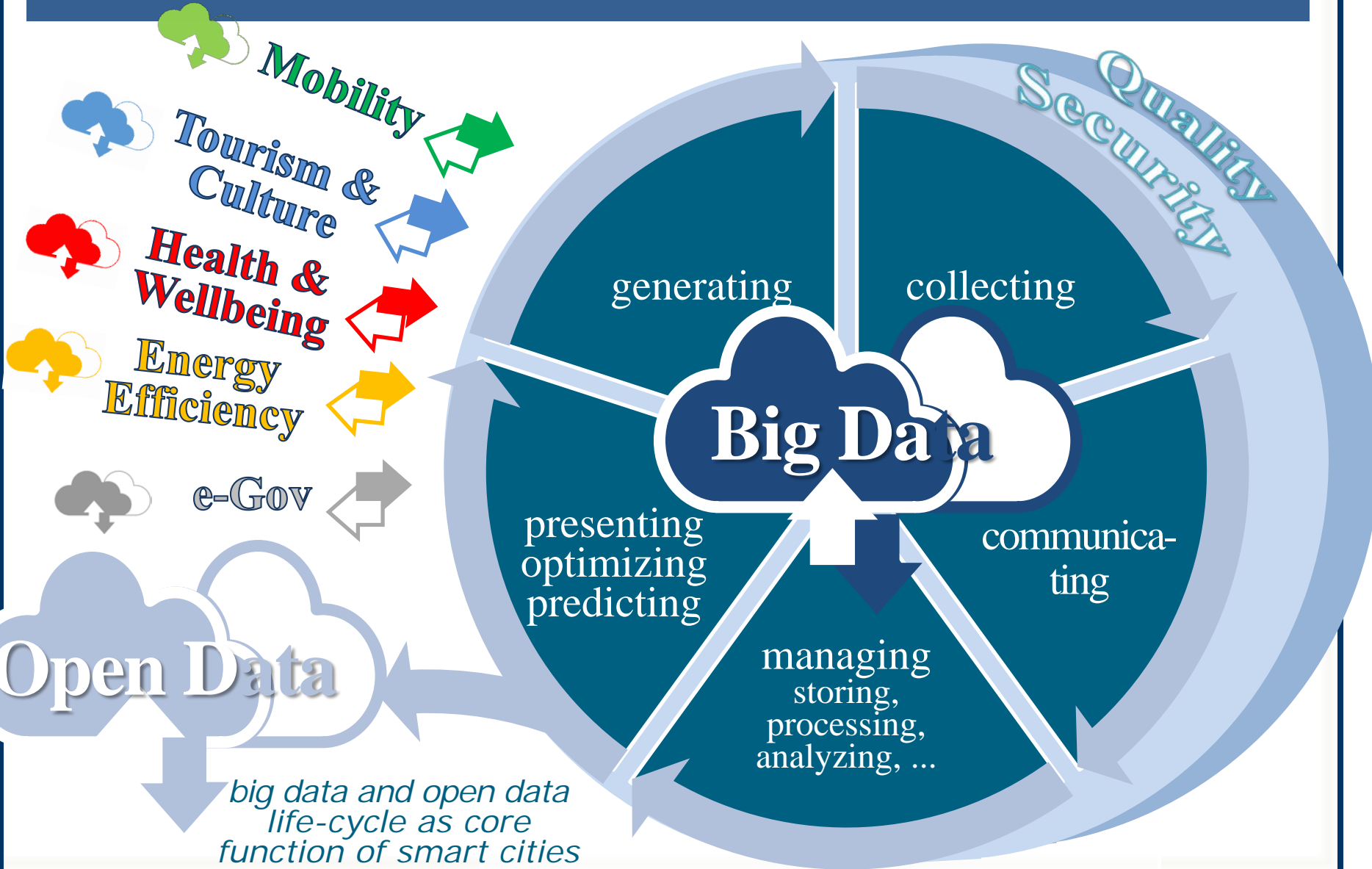
- ❑ **quality of life**
- ❑ **cohesive relationships**
- ❑ **sustainable development**



Main **strengths of Trento:**

- ✓ **ecosystem** of research centers, university, industries
- ✓ strong **commitment** of public bodies
- ✓ shared vision and strong **stakeholders links**

IEEE SCI Trento: Domains



IEEE SCI Trento: Working Groups

involving **all stakeholders** and **domain experts**

PURPOSE: promote the definition of **shared strategic goals** in the development of Trento smart city in the following domains:

- **Big Data and Open Data**
- **Smart Governance**
- **Health and Wellbeing**
- **Energy Efficiency**
- **Integrated Tourism**
- **Mobility**



- ✓ they are the **operating units** of the initiative
- ✓ promote the evolution of the **ecosystem** through synergies and interactions
- ✓ promote the **smart city development** also applying to national and international projects



Trento Smart City Week

Smart City for Smart Citizens

10-15 September, 2016



Focused on **citizens** and **stakeholders**

- ✓ shared **vision of Trento**
- ✓ **working groups** strategic goals
- ✓ **panels** with other cities representatives
- ✓ **demos** and industrial **exhibitions**
- ✓ initiatives fostering **citizens active participation**
- ✓ involvement of **students** and **young people**



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Trento Smart City Week

Symposium on Engineering Trends and Opportunities for Smart Cities

13-14 September, 2016

- ✓ jointly organized by **University of Trento** and the Association of Italian engineers abroad (**AssoInge**)
- ✓ aimed at promoting **industry and research** knowledge and collaboration
- ✓ **panels** on Smart energy systems, Cyber security, Distributed control systems, Biomedical engineering



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Trento Smart City Week



IEEE International Smart Cities Conference (ISC2 2016)

Improving the citizens quality of life
12-15 September 2016 | Trento - Italy

The IEEE International Smart Cities Conference (ISC2) is the premier conference sponsored by the IEEE Smart Cities Initiative and the IEEE Italy Section. The primary goal of the ISC2 is to foster plenary discussions and collaborations between all entities involved in planning and implementing successful smart cities, including Citizens, Policy makers, Administrators, Infrastructure operators, Industry representatives, Economists, Sociologists and Academicians. Specifically, the core purposes of the event are:

- to promote and to strengthen partnerships and cooperation between all involved entities;
- to increase the citizens understanding and awareness of how their active participation through new technologies can positively affect quality of life;
- to disseminate recent research advancements, novel implementations and advanced deployments fostering smart city evolution;
- to provide a clear view of challenges in urban areas and discuss new ideas and approaches promoting the transition towards a vibrant innovation-based society.

The program of this flagship event includes panels, technical sessions, tutorials, and exhibitions.

The theme of the 2016 edition of IFSC is *Improving the citizens quality of life*.

IMPORTANT DATES

Submission of draft papers: **11 April**

Notification of acceptance: **6 June**

Final submission: **27 June**

Early registration: **30 June**

IEEE Second International Smart Cities Conference

12-15 September, 2016

<http://sites.ieee.org/isc2>

- ✓ **scientific papers** on smart government, health and wellbeing, smart energy, smart transportation, big data and open data, privacy and security
- ✓ jointly organized **workshops** (ITU and other big industrial players)
- ✓ **industrial exhibitions**
- ✓ **IEEE core cities summit** and agreement

