

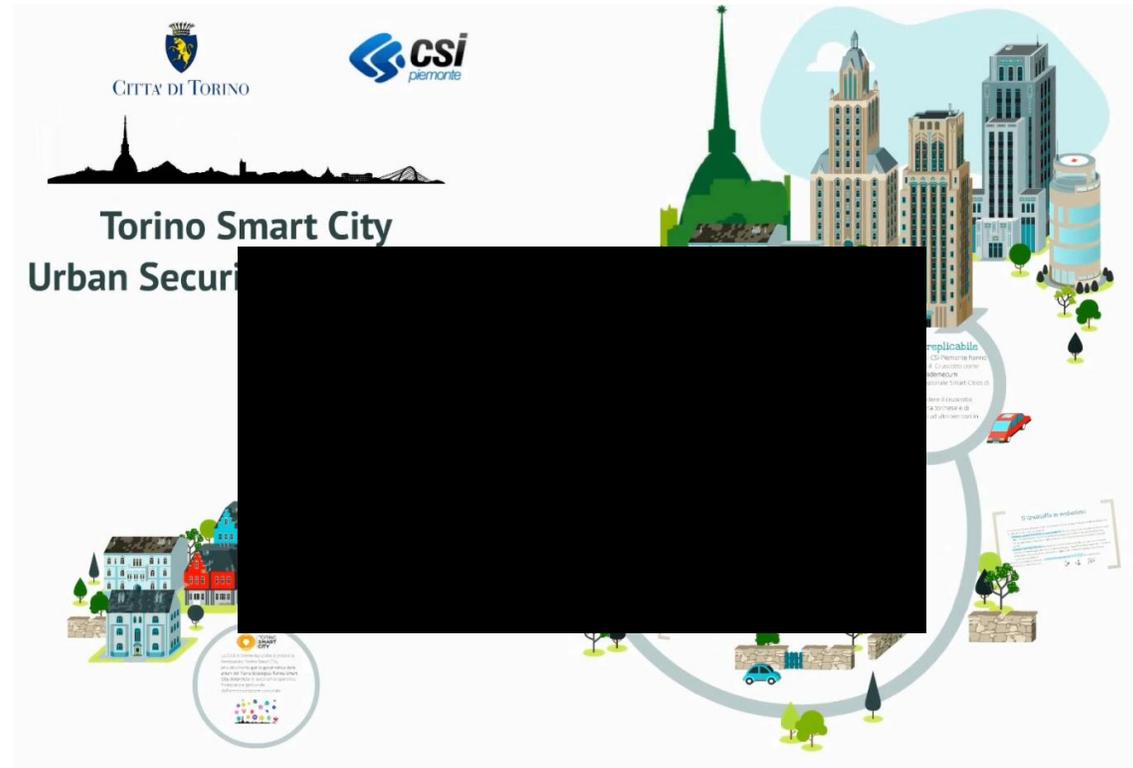
Turin's Smart City strategy and projects

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SAS Forum Russia
May 2015



Urban Security Dashboard – CSI Piemonte



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Introduction to Turin

900.000 inhabitants (1.7 Mln in urban area) / 130 kmq

The name means «Bull»

4th Italian city by population

Celto-Ligurian origins, Roman *castrum* (1st century B.C.)



Metropolitan Area:

38 Towns

2,2 Mln people



LAVAZZA

INTESA  SANPAOLO

FERRERO



The Smart City vision

- The Torino Smart City project is related to the **Turin Action Plan for Energy (TAPE)**, approved in February 2009 and aimed to reduce CO2 emissions by 40% by 2020. The TAPE was developed in accordance with the Covenant of Mayors requests, where the City of Turin participates.
- Following the **European Commission Smart City challenge** (2011), the City of Turin made the decision to engage in a more structured approach by developing a more complete and compelling strategy:

Torino Smart City

capable of producing high technology solutions, reduce buildings' energy consumption, promote clean transport and improve the quality of life of its inhabitants by achieving low carbon dioxide emissions.



The Smart City governance

Created in 2011, the **Torino Smart City Foundation for Sustainable Development** is the organization responsible for the coordination and management of Turin Smart City initiatives:



- research and projects that educate citizens, institutions and economic actors to a culture that respects the environment;
- actions that improve quality of life, economic development and protect the environment;
- innovative approaches to the rationalization of the management of local energy resources and environmental issues



Partnerships for Smart City



The City of Torino and the Torino Smart City Foundation chose **Torino Wireless** – the local government-supported agency for Innovation and ICTs – **as a partner** for the smart city planning and roadmap implementation



The Smart City Strategic Planning



The investment of Turin on Smart City

+ ENROLLMENT and ENGAGEMENT

MATCHING BOARD

ENROLLMENT AND MAPPING OF PARTNERS

- ✓ **168** public and private entities interested
 - **127** companies
 - **3** research centres
 - **38** institutions/associations

+ PARTECIPAZIONE and MOTIVATION

SMILE PROJECT

ACTIVE INVOLVEMENT IN THE PLANNING PROCESS

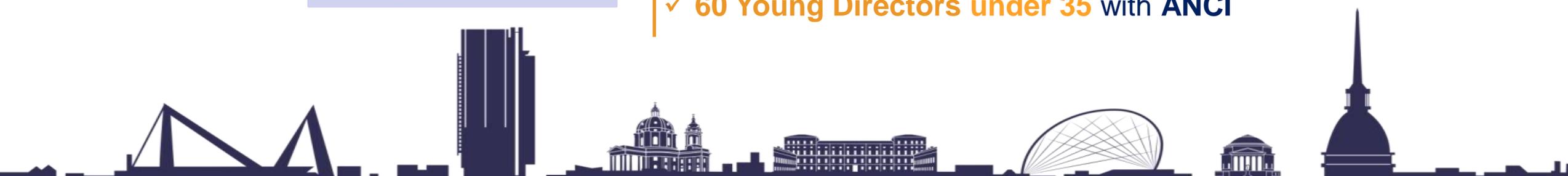
- ✓ **77** people involved in the strategic planning project
 - **55** participating to working groups
 - **22** attending committees (steering and project)
- ✓ **All City Departments involved**

+ SKILLS

MASTER IN MNGT

TRAINING IN MANAGEMENT OF SMART CITIES

- ✓ **77 Executives** in partnership with **INPS**
- ✓ **60 Young Directors under 35** with **ANCI**



The SMILE project

- **February 2013**: the City of Turin and Fondazione Torino Smart City - supported by Fondazione Torino Wireless as technical partner and project coordinator - launched the **strategic planning process** through the SMILE project.



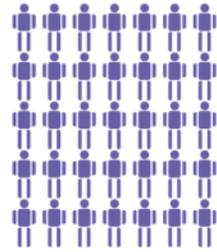
SMILE project: key objectives

- The **Smart City model** that will help Turin defining key projects
 - Beyond the logic of single demonstration
 - With models of sustainable and replicable solutions
 - For the enhancement of local excellence
- A **method for rapid design** and coordination
- A **planning system** that evolves over time towards measurable objectives (KPI)



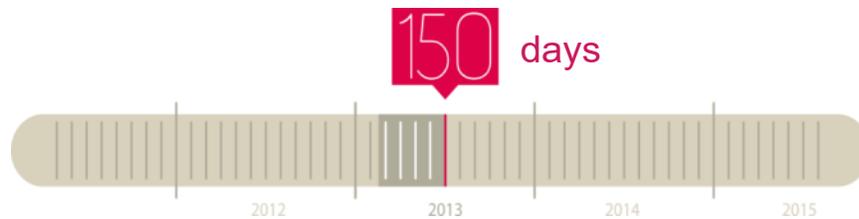
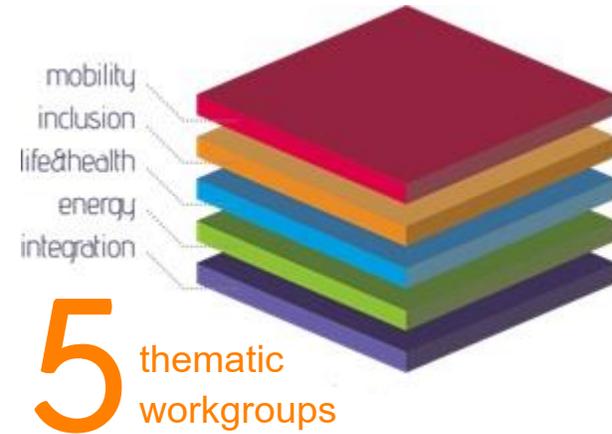
SMILE project: key numbers

350
people
involved



28 Companies
23 Entities
5 Research Centers
10 associations

All enrolled for FREE!!!



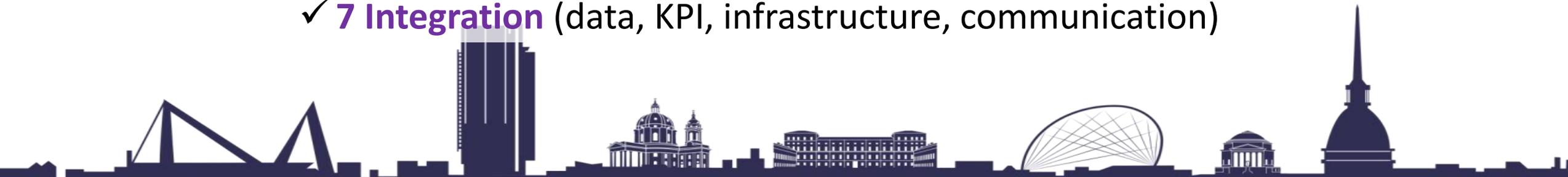
10 thousand man-hours spent



The Master Plan in facts (I)

- **45 Actions** included

- ✓ **7 Mobility** (infomobility, bike mobility, freight logistics)
- ✓ **9 Inclusion** (digitalization, emergency housing, employment & social innovation, social participation)
- ✓ **12 Life&Health** (safety & security, waste, urban regeneration, tourism & culture, life styles, food system)
- ✓ **10 Energy** (building efficiency, smart grids, public lighting)
- ✓ **7 Integration** (data, KPI, infrastructure, communication)



... and more

- **Metrics and KPIs** for the Smart City
- **Integrated** urban planning
- Communication to **citizens**
- Available **Data** Mapping
- **Telco's** new generation **networks**
- **Regional transport** synergies



The Master Plan in facts (II)

- **23 sectorial plans** screened
- **17 assets** evaluated
- **85 ongoing projects** mapped
- **68 EU cities** benchmarked



Smart City planning – the roadmap

Companies, Universities,
Associations, Public
Administration:
**60+ entities &
350+ people involved**

City of Turin:
**Directors &
Officers**

**City
Departments**



2013



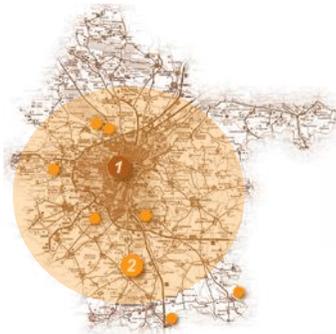
What happened in 2014?



Smart City project development



Collaboration with national stakeholders



Synergies with metropolitan planning



Smart City project development



Smart City projects in facts

Ongoing projects

60+ in 2014

-  28% Life&Health
-  27% Inclusion
-  19% Energy
-  15% Mobility
-  10% Integration

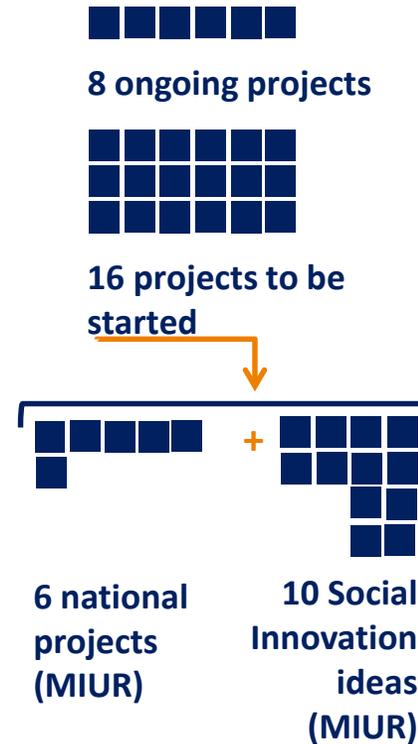
City as a partner

in **36 projects**



City endorsement

to **24 projects**



EU fundings

1mIn€+ in 2014

Fundings for the city of Turin



European projects

Public Procurement for Innovation

*Building retrofitting
Public lighting
Foodservice industry*

Digitalization of public services

Social inclusion

Young employment

Social Innovation

Energy Efficiency

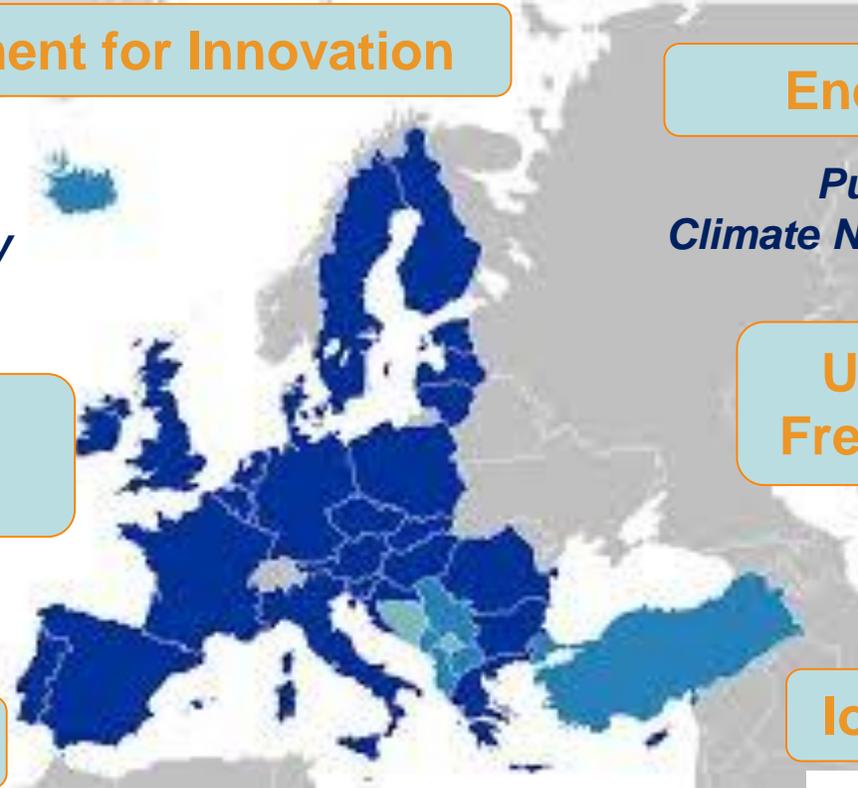
*Public buildings
Climate Neutral Urban Districts*

Urban Mobility and Freight Management

Infomobility and intermodality

IoT for Smart Cities

Waste and water management



National projects

... and Social Innovation ideas

Smart Government

Decision support for strategic planning

Cultural heritage

Smart, integrated and inclusive tourism

Smart buildings

Secure and sustainable buildings

Last mile logistics

Sustainable goods distribution in urban environment

Welfare and social inclusion

Intelligent and inclusive urban spaces

Ageing well

Care&cure services and assisted living



Local projects

Building energy management

Audit for energy consumption and building retrofiting

Social Innovation

Business opportunities for young entrepreneurs

Public lighting

LED for street lighting and trafficlights

Welfare and social inclusion

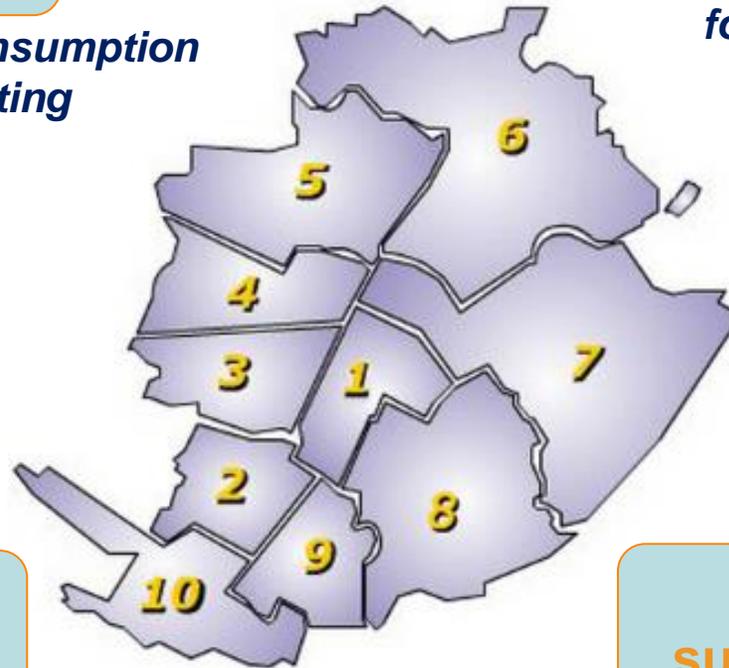
Inclusion and savings through food economy

Participatory administration

Social engagement for reducing costs of the public administration

Digital and sustainable schools

Digital skills and sustainability awareness for young generations



Undergoing activities in 2015



Opportunities for EU projects

- **SCC1 Call**

- **Scope:** To identify, develop and deploy replicable, balanced and integrated solutions in the **energy, transport, and ICT actions** through partnerships between municipalities and industries
- Deadline: 5.05.2015
- Budget: €106.18 Mln (18/25 Mln per project – 5/6 funded projects)

- **CIVITAS** (MG.5.5-2015 Call)

- **Scope:** Demonstrating and testing innovative solutions for **cleaner and better urban transport** and mobility



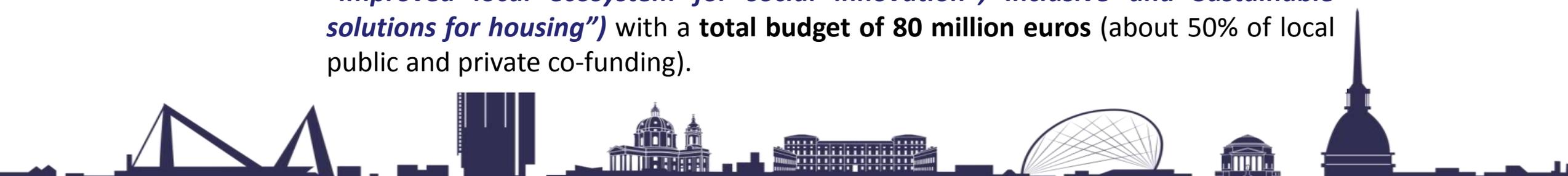
THE CIVITAS INITIATIVE
IS CO-FINANCED BY THE
EUROPEAN UNION



ERDF National Operational Programme – PON Metro

Within the EU Structural Funds 2010-2020 Framework Cities are involved into national operational programmes fostering sustainable urban development

- The **Italian Government** set up a **strategic framework** for co-planning of the Italian PON METRO setting out **2 main objectives** around the ideas of **SMART CITIES** development and **SOCIAL INNOVATION**.
- The proposed measures are **under negotiation** with the EC. All involved **Italian metropolitan cities** (including Turin) have been **involved into the detailed planning** of each own local action plans.
- The ***SMILE Master Plan*** has been the ***reference guideline*** in developing the Turin's proposal for the local action plans.
- The provisional plan includes **4 integrated actions** (***“Sustainable and low Co2 mobility and public properties”***; ***“A more modern and efficient Administration”***; ***“Improved local ecosystem for social innovation”***; ***Inclusive and Sustainable solutions for housing”***) with a **total budget of 80 million euros** (about 50% of local public and private co-funding).



Collaboration with national stakeholders

Torino Smart City and the Italian Platform for Smart Cities

According to the collaboration established with ANCI (Associazione Nazionale Comuni Italiani) and its role in developing strategic Smart City planning, the City of Turin is currently working in **mapping key projects** implementing replicable models able to foster the **reuse of experiences** at local (metropolitan) level as well as at national level.

The outcomes of this activity, which is the entry point for a continuous exchange and sharing of experiences among public administrations, will be published as **best practices** on the national **Italian Platform for Smart Cities**.



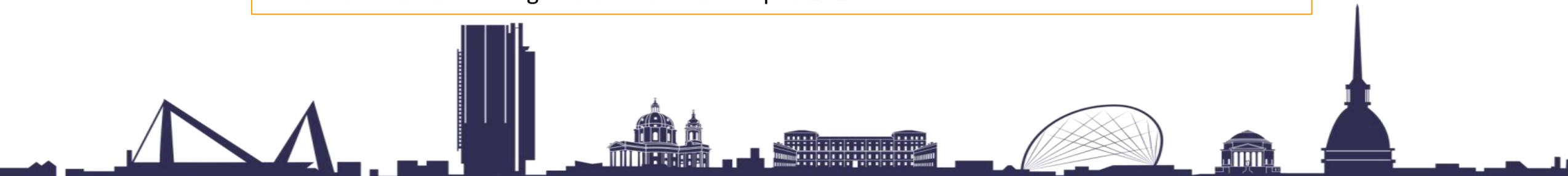
Scaling at metropolitan level

Torino Smart City and the metropolitan area

In 2015 the City of Turin has started a process of scaling at metropolitan level the acquired experiences in **planning methodologies and developing projects**.

Turin and the 37 municipalities of the metropolitan area aim at representing the national best practice by:

- **sharing experiences** and success stories of smart communities
- **fostering networking** between municipalities and starting to implement an integrated approach to territorial planning, as promoted by the European programmes
- **developing "lighthouse projects"** able to provide impacts at metropolitan level, to be included in the Strategic Plan "Torino Metropoli 2025"



To stay tuned ...

The screenshot shows the Torino Smart City website homepage. At the top, there is a navigation bar with the logo and menu items: TORINO SMART CITY, ASSET, SMILE, PARTNER, NEWS, EVENTI, MEDIA, CONTATTI, ENGLISH VERSION. The main banner features the text "Commitment. Creativity. Resourcefulness. Welcome to Torino." and "45 ideas for the city of tomorrow." with social media icons. Below the banner, there are several news articles and video thumbnails. The articles include "CROWDCITY DAY 2014", "FABRIZIO BARCA: FONDI UE E L'AGENZIA PER LA COESIONE", "CULTURA E COMPETENZE DIGITALI: AL VIA LA CONSULTAZIONE PUBBLICA.", and "innovaTo LA CITTÀ DI TORINO CHIEDE 'IDEE NON COMUNI' AI SUOI DIPENDENTI.". The video thumbnails show "VIDEO 'TORINO DOVE NASCE IL FUTURO, DA SEMPRE'" and "CONVEGNO #45 IDEE PER TORINO, parte 1, Teatro Reg...".

www.torinosmartcity.it

The screenshot shows a video player interface. The video title is "Torino, dove nasce il Futuro. Da sempre. Englis...". The video content displays the word "Smile" in a large font, with a play button icon. To the right of the word, there is a list of categories: Mobility, Inclusion, Life & Health, Energy, and Integration, each with a corresponding icon. The video player controls at the bottom show the video is at 0:00 / 6:55.



And coming soon...



An **online mapping** of the ongoing pilot testing sites to foster **citizen awareness** on Smart City development and outcomes



Thanks for your attention!

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