





Covenant of Mayors and CEDEC Webinar 25th May 12.30 – 13.45

FIRENZE FLORENCE

towards a smart, sustainable and e-city



FLORENCE IN NUMBERS







Popolazione residente

368,901 totale residenti, di cui il: 26% in età di 65 anni ed oltre

Università (a.a. 2008/2009)



58.828 totale studenti iscritti

3.855 totale personale universitario





Population pressure





Non resident population More than

184.000



Museums and similar institutions





more than 7.500.000 visitors

Flussi turistici giornalieri

H 24 presenze giornaliere medie







Active local units in Florence

almost 48.000 almost 170.000 Staff

industry; building; business



UNESCO Florence Historical centre Admitted onto the World

Heritage List in 1982











Mayor's Adapt (2015)





- 1998 Carta di Aalborg
- 2005 Impegni di Aalborg
- 2010 Covenant of Mayors







Compact of Mayors (2015)



RESOLUTE: RESilience management guidelines and Operationalization appLied to Urban Transport Environment (2015)



REPLICATE: REnaissance Places with Innovative Citizenship And Tecnology 2016



100 Resilient Cities (submitted proposal – under evaluation)

The SMART CITY PLAN: integrated and synergic actions

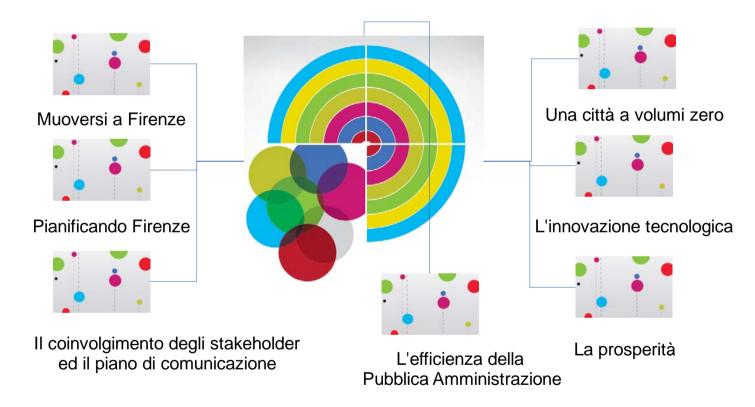


from idea to action: Florence as testing

REPLICATE

REnaissance PLaces with Innovative Citizeship And Technology







create a smart district model to scale up



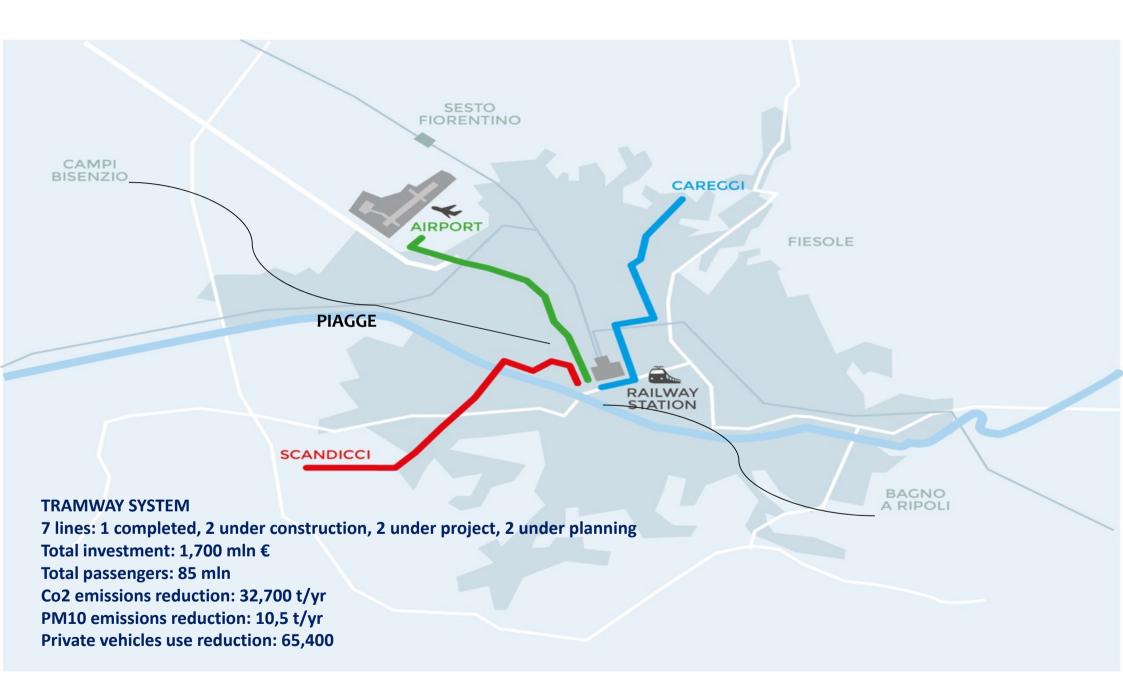


Mobility in Florence is the main sector affecting CO2 emissions (34%)

TRANSPORT NETWORK MODERNIZATION AND MOBILITY EFFICIENCY local rails trams, bus, highways, parking spaces, intermodality, park and ride, pedestrian areas low-emission vehicle, soft mobility, e-mobility

Information technology, infomobility platform, traffic supervisor







FLORENCE THE WALKING CITY

The largest European pedestrian area within a city centre

Pedestrian areas are growing all the time:

- 2009 > 260,000 m²
- 2012 > 380,000 m²
 In particular: Piazza Duomo, via Tornabuoni & Piazza Pitti
- 2014 > 395,000 m²
- 2016 > 400,000 m²
 Piazzale Michelangelo

- Area DUOMO
- Area POR SANTA MARIA
- Area RICASOLI
- Area PITTI
- Area CARMINE
- Area MICHELANGELO

THE HIGHEST NUMBER AMONG OUR NATIONAL TOWNS: OVERALL AMOUNT ELECTRIC VEHICLES (PUBLIC AND PRIVATE SECTOR)

10 mini electric bus (for the Unesco area)

Electric municipal fleet: 130 vehicles (bikes, car, vans...)

1/1000 inhabitants electric recharge points (either public and reserved for municipality)

4 very fast recharge points for the city's e-taxi fleet (first Municipality in Italy to provide the service)

100 e-taxi, 226 hybrid taxi, 464 thermic engine taxi (taxi fleet : 790)

2015 and 2016: no cost recharge points to improve e-vehicles use











NOT OWNERSHIP CAR AND BIKE SHARING

The today city's car sharing fleet (2016)

650 vehicles (200 electric vehicles): free flow 600 (200 electric vehicles) and 50 traditional

The tomorrow city's car sharing fleet (2021)

1200 vehicles (400 electric vehicles): free flow 1200 (400 electric vehicles)









car2go

enjoy

Bike sharing today (2016):

50 stations; 750 bikes/e-bikes; Bike sharing tomorrow (2021): 120 stations; 1800 bikes/e-bikes









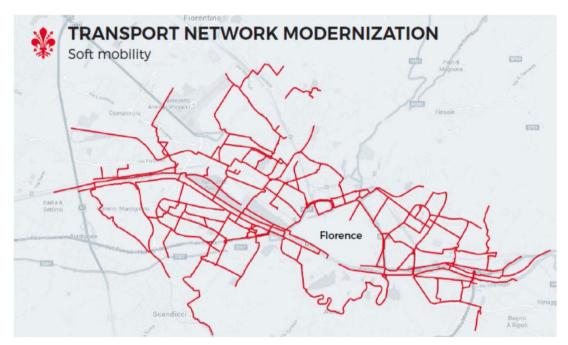
SOFT MOBILITY: BIKE PATH

City's bike-path network today: 137 km

City's bike-path tomorrow (2022): 187 km

- completion of the bike-path city's network and its extension to the metropolitan area
- Completion of the bike-station system (main hub: Santa Maria Novella)





EFFICIENCY IN INFORMATION AND COMMUNICATION TECHNOLOGIES

- Smart city control room (dataset and big data managing)
- Traffic control room
- Info displays and real time mobile apps
- Automated entrance surveillance
- Eco-road pricing IOT reduce traffic and lower pollution















STAKEHOLDER INVOLVMENT: the bottom up strategy

LISTENING AND SHOWING CITIZEN HOW TO BETTER LIVE FLORENCE WITH INNOVATION, SHARING OPPORTUNITIES, ANALYSING SITUATION, QUESTIONS&DOUBT

System thinking: the process of understanding how those things which may be regarded as systems influence one another within a complete entity, or larger system

What we have to do?

Find your way to get in touch & keep in contact with the people

In Florence, the **marathon of audience**: open event on a specific theme where citizens can attend and take part to the discussion as the active party of the meeting.

Deciding without listening is high-handedness; listening without deciding is powerlessness.











