SMART CITY
Testbed for Smart Solutions
Investing in technology as a driver of innovation

Almost 80% of companies say their customers are changing how they access goods and services. More than 51% of these companies are changing their pricing and delivery models.

Businesses are failing to use approximately 80% of customer data now generated.

Yesterday

Company

vs.

Company

Tomorrow

Ecosystem public/private

vs.

Ecosystem public/private
Trends and investments into emerging technologies

Augmented Reality (AR) and Virtual Reality (VR)
- VR and AR market will reach $80 billion by 2020

Internet of Things (IoT)
- Worldwide IoT forecasts a $8 billion market size

Autonomous Vehicles (AVs)
- 2040 Up to 75% of all vehicles will be autonomous

Unmanned Aerial Vehicles (UAVs)
- The global drones market will reach $5.6 billion by 2020

Artificial Intelligence (AI)
- The "2045" problem
The future is smart
Smart Cities are...

- **Safe & Resilient**: Become safer and more resilient
- **Green**: Focus on pollution reduction and improvement of environment
- **Innovative**: Use new solutions, new materials, new technologies
- **Friendly & stimulating**: Municipalities engage citizens and other stakeholders, incl. SMEs, industry and academia in discussions on initiatives and (preparation of) projects
- **Digital**: Are supported by integrated ICT systems

**Moving towards sustainable economic growth & social cohesion**
To launch the process, cities should have a vision

We want to be...

... a city which is innovative and uses all of its resources, including waste

... a city open to its citizens

... a city which supports entrepreneurship and education

... a city where technology is a partner not a slave master

... a city which is friendly in terms of living, working and social life
What is the SMART CITY Index?

Complex comparative approach based on indicators, which help capture the accurate state of given city or region, its resources, challenges and pain-points, problem solving capability and liveability for its citizens.
Helping discover the right opportunities...

...through over 470 indicators

Four layers of Smart City organisation

**APPLICATIONS AND SERVICES**
Applications and value-added services for citizens

**SERVICE DELIVERY PLATFORM**
Development and enhancement of the big data territory

**SENSORS**
Big data is collected via IoT which also enables the management of the city’s infrastructure remotely

**INFRASTRUCTURE**
Networks and technological equipment for building a smart city

**EY Smart City Index**

Two complementary areas of perspective

**SMART CITIZENS AND CITY LIVEABILITY**
The impact of the smart services on Italian citizens’ quality of life

**VISION AND STRATEGY**
The drafting of strategic plans and institutional policies in the field of Smart City
Helping discover the right opportunities...

### Thematic Areas and Indicators

#### Health
- Electronic Health System
  - Online bookings, prescription payment charges and withdrawal of medical reports
  - Online choice of General Practitioner
  - Access to Electronic Health Record data

#### Education
- Digital Education
  - Distribution of Personal Computers in schools
  - Distribution of Multimedia Interactive Whiteboards (MWB)
  - Internet-connected classrooms

#### Culture & Travel
- Culture & Tourism
  - Municipal portals for culture and tourism
  - Information and booking of accommodation facilities
  - Information on attractions, amenities, theme routes and user generated content
  - Purchase of tickets or City Visit Cards including fees for museums and local sights

#### Mobility
- Alternative Mobility
  - Electric cars
    - Diffusion of hybrid and electric cars
    - Diffusion of charging stations

#### Natural Resources
- Waste Management
  - Waste separation and door-to-door collection
  - Waste collection tips

#### BROAD BAND
- Fixed Broadband
  - Fixed broadband and ultra-broadband (ADSL, Optical Fibre)

#### Mobile Broadband
- Mobile broadband and ultra-broadband (HSPA, LTE)
- Wi-Fi

#### Smart Mobility
- Local Public Transportation
  - Electronic tickets
  - Digital timetables and routes
  - Information services for travelers

#### Smart Government
- Online Services
  - Registry office services (certificates and change of address)
  - Municipal school registrations

#### Smart Urban Security
- Urban Security
  - Monitoring services, video surveillance and sensor technologies

#### Energy Efficiency
- Smart Building
  - Incentive policies
  - Gas and electricity consumption

#### Renewable Energy
- Solar Energy
  - Energy produced using photovoltaic panels

#### Wind Power
- Energy produced by wind turbines

#### Hydroelectric Energy
- Energy produced by hydroelectric power plants

#### Open Data
- Open Data
  - Open data projects, open data portals and published datasets

#### Smart Justice
- Digital Justice
  - State of progress of the telematic civil trial

#### Digital Security
- Presence of cloud computing, business continuity or disaster recovery plans

#### Smart Grid
- Remote control of electric grid nodes
Helping discover the right opportunities... through over 470 indicators.
Thank you for your attention!

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