

La Spezia 20 20

Planning the city of tomorrow

La Spezia 20 20

La Spezia is a city of about **95.000 inhabitants** located in the north west of Italy, in the Liguria Region.

Thanks to its location in the past the Gulf of La Spezia has been chosen as privileged place to install military settlements and to develop commercial trades. The economic and social history of the city of La Spezia has always been strongly characterized by its important **Port** that is one of the Italian most important mercantile calls (currently ranking 3rd). The bay and its surroundings (5 Terre) are popular **tourist destination** and locations of particular natural and landscape value.

The urban economy is also strongly characterized by important **shipbuilding-related activities**, coordinated by one of Italian's most important **cluster for marine technologies** (DLTM – Liguria Cluster of Marine Technology), by the presence of an **University Pole specialized in nautical engineering** and by the presence of several **national research centers** specialized in marine topics (CNR, ENEA, CSSN, INGV). Another important element that contributed to shape the city economy is one of the biggest **Italian coal and gas fired power plant** (1300 MW of installed capacity producing more than 3% of the total Italian electricity soon under downsizing).



Projects and plan developed

2 **Strategic Plans:** the first started in 1999 and the second in 2012

Many **sectorial plans** and projects aimed to a sustainable and intelligent urban development, among these:

- Integrated Mobility Plan with several on-going interventions on Sustainable Mobility and projects on ITS and info mobility development;
- Energy Plan - Covenant of Mayors Membership and SEAP approved in 2012;
- Broadband and WiFi Projects under implementation (ERDF funding)
- Several Urban regeneration plans and instruments (Contracts of Neighborhood - PRUSST – ERDF Integrated Projects) and the Urban Plan under revising

Projects and plan developed

Action implemented in the Energy field:

- Public lighting efficiency projects and realization of an urban cogeneration plant (POR ERDF 2007-2013) ;
- PV systems on 3 public buildings;
- Interventions on window frames and envelopes of 7 schools buildings;
- Pilot municipality economic support scheme to provide free energy audit to private building intending to perform further energy efficiency intervention;
- The “Energy annex” to the Building Regulation (approved in May 2015) forecasting incentives for interventions on private buildings and plants;
- Underway agreement with La Spezia trade associations for the creation of an "energy ATM" for citizens (aimed at providing technical and financial guidance to facilitate private intervention in energy efficiency and renewables);
- Remote management of the municipal heating system (included in a more complex framework of smart monitoring and communications of energy and emissions related data);
- Regional database on private thermal plants.

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Why La Spezia 20 20?

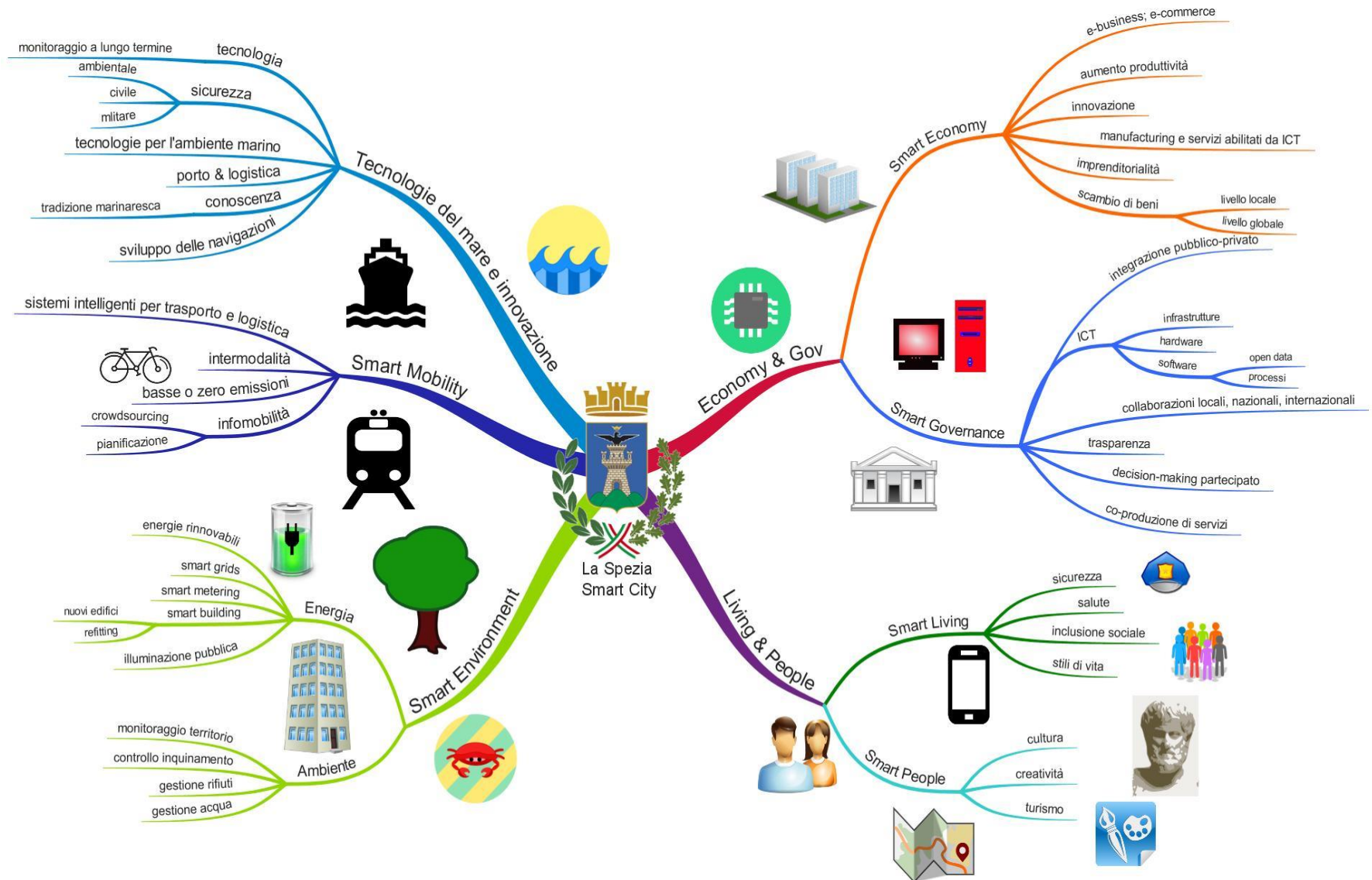
- The economic crisis imposes to redesign a strategy for a **long-term city development**
- Cities need an **integrated** perspective, **clear** and **achievable** claiming a **central role** in recovering the competitiveness of their territory;
- City innovation, urban regeneration, energy efficiency, sustainable mobility, social housing and Smart Cities & Communities policies as a result of both **bottom-up** (community driven) and **top-down** (Municipality smart governance) policies;
- The **Urban Agenda** included in the European programming cycle 2014-2020 and the use of the funds dedicated to Smart Cities impose to launch and implement farsighted programs and projects.
- Through **La Spezia 20 20**, the Urban Agenda is the result of the overlap between the political vision of the future of the city and the technical capability provided by the stakeholders involved in the process.

La Spezia 20 20 is a process conceived to build a smarter city in the frame of a new strategic program sighting the Horizon “2020” and aimed to involve research centers, universities, companies, main local institutions and citizens and to promote private-public co-design and cooperation experiences

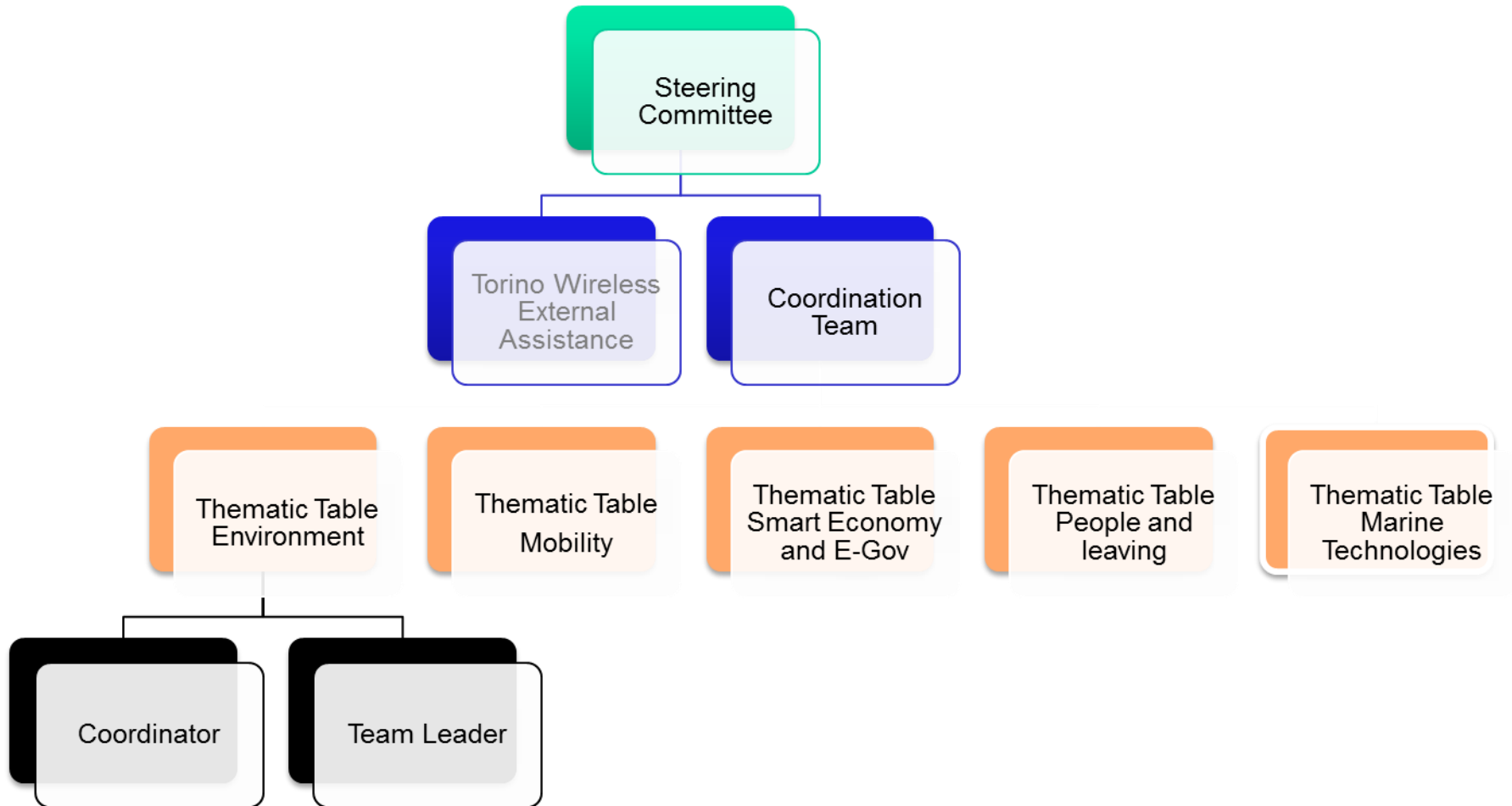
key elements: *involvement and participation, use of innovative technologies, public-private partnership*

The participatory process is actually on going through out the work of **5 thematic tables** with qualified stakeholders. **Smart Energy and Enviroment** among the themes under discussion.

Thematic Tables



Organization



La Spezia 20 20

The goal of “*La Spezia 20.20 – the city becomes Smart*» is to define strategic and feasible sectorial actions to compose the smart city Masterplan and to implement shared, innovative but feasible projects, under a technical and economic point of view

In order to better implement and develop the strategic actions emerged from the working tables the City wants to exchange experiences and to learn from the best National and European practices.

For these reasons La Spezia is already member of

- the national Smart City Observatory (ANCI);
- the European Innovation Partnership (Integrated Planning Cluster);
- POLIS network;

and partner in a Horizon proposals to be presented to the EC on Energy topics

La Spezia and the SINFONIA Replication Cluster

An opportunity to learn good practice in order to switch from the planning stage to the implementation stage

➤ Ambitions for energy efficiency

To implement the results of the smart table on Energy and Environment: 16 actions indicated since now to be aggregated and evaluated under the feasibility and impact profile

Main actions proposed	Responsible
Development of a mini wind power plant and identification of areas suitable for installation of RES plants -	Municipality; Treecube and Atea s.r.l. for the wind power plant
Incentives for energy efficiency in private buildings	Sectorial and private owners associations
Priorization plan for efficiency of public buildings	ENEA
Characterization of port energy consumption and evaluation of potential energy production from the sea	ENEA
Cold ironing (electric shore connection)	Port Authority
Energy ATM	Municipality / ENEA
Professional training for energy management	Scuola Edile
Increase production and efficiency of the urban treatment plant (biogas)	ACAM (Public Service Company)
Complete replacement of public lighting with LEDs	Municipality
Smart grids and energy metering	Enel
Smart energy community	Legambiente
Exploitation of thermal waters with low enthalpy	ACAM
Optimization and exploitation of the local wood-to-energy chain for generation of local certified biomass fuel and a distributed network of small cogeneration plants	EIDOS S.r.l.

➤ **Main challenges**

- to experiment forms of public-private partnership and to intercept public funding for the development of the actions proposed;
- to make choices in line with the market but also with the development strategies of the city (linked to the new Urban Plan);
- to maintain the sharing and co-planning method even at the stage of project development.

➤ **Main expectations from the cluster**

To learn about :

- business models in use and procurement schemes
- examples of urban micro co-generation plants
- policies towards privates in terms of incentives or stricter regulations.



Thank you for your attention

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