

The quality
OF OUR LIFE

**CLIMATE CHANGE:
THE CHALLENGE OF LA SPEZIA** *2 October 2018*

Kristopher CASATI
Chairman of Environment - city hall of La Spezia

CLIMATE

The Paris Agreement is the starting point, which empowers us to do more and better for our climate.

With an organic and integrated path, increasing its resilience in the face of the impacts of climate change in progress.

CHANGE

POLICIES FOR
ENVIRONMENTAL SUSTAINABILITY

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OUR CHALLENGE:

improving the “quality of living” means first of all promoting and encouraging the development of an environmental culture consistent with the principles of sustainability, in close correlation with the development and rebalancing of the urban ecosystem. These are the goals that we want to share with the citizens.

CLIMATE CHANGE
CITY CHANGE

IMPROVING THE QUALITY OF LIVING

*At local level, in La Spezia, the goal is to **improve the environmental quality of life**, pursue the principles of sustainability in the territorial redevelopment, the rebalancing of the urban ecosystem, favor policies aimed at reducing pollution on the territory and in the atmosphere and encouraging the growth of a **new environmental culture**.*

In this panorama the areas of intervention we are working on are: "Waste, Energy, Air, Water, Environmental Education".



WASTE

RECYCLING

GUIDELINES 5

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THINK GLOBAL, ACT LOCAL

IN ITALIA, with the 1997 RONCHI legislative decree, the waste Tariff is calculated only on the presumptive method and on the criterion of the square meters of the building.

IN LA SPEZIA, with the introduction of the punctual rate, the tariff from 2019 will be linked to the actual production of waste. A system of precise calculation based on how much waste is produced and differentiated by the user.

NEED TO REDUCE non -recyclable waste:

DISPOSAL COST: **202€/t**
THE LAST YEAR:
3.000.000 € TO DISPOSE
OF IN LANDFILL

CHANGE

GUIDELINES

HOW TO INCREASE SEPARATE WASTE COLLECTION?

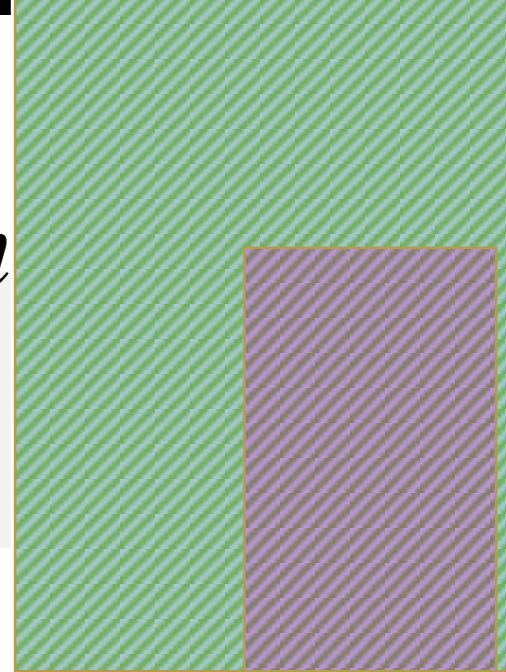
A flexible, fair, efficient, citizen-friendly system

SMART BINS FOR WASTE

- 40 smart bins have been distributed throughout the territory. They are controlled access, video surveillance, can be used without limits of days and times.

PUNTUAL RATE

- A system of calculation of the waste tariff linked **to the actual production of waste by the user**, measuring the non-recyclable fraction.



THE INSTRUMENTS AND PHASES OF CHANGE:

STEP 1 SMART BINS FOR WASTE

- **18 smart bins** have been positioned in the historical center, replacing the mobile bins, accessible through the **Spezia EcoCard** card without limits of groups and timetables.

STEP 2 INTEGRATION DOOR TO DOOR

- outside the historical center, the door-to-door collection service is integrated with **22 smart bins** to SUPPORT the citizens to satisfy shortcomings due to the home collection system.

STEP 3 PUNCTUAL RATE

- punctual tariff for the residual fraction, measured with **access control** to the gray container of the smart bins for the historical center and with **the purple bags conform** to the users served from door to door.

HISTORICAL CENTER

the change will be as much rooted as it will make users more aware

SMART BINS FOR WASTE

- *18 smart bins for waste with video surveillance, replace the mobile stations that, on set days, were often used in excess because there is no controlled access as it is with the new intelligent system.*

PUNTUAL RATE

- *through Spezia EcoCard the user's access to the container of the residue is controlled with an entry mouth limited to 40 liters. Who respects the minimum access based on the components of the nucleus, will have a reduction in the waste tariff.*

OUTSIDE THE HISTORIC CENTER

the change of our city in the field of waste policies

SMART BINS FOR WASTE

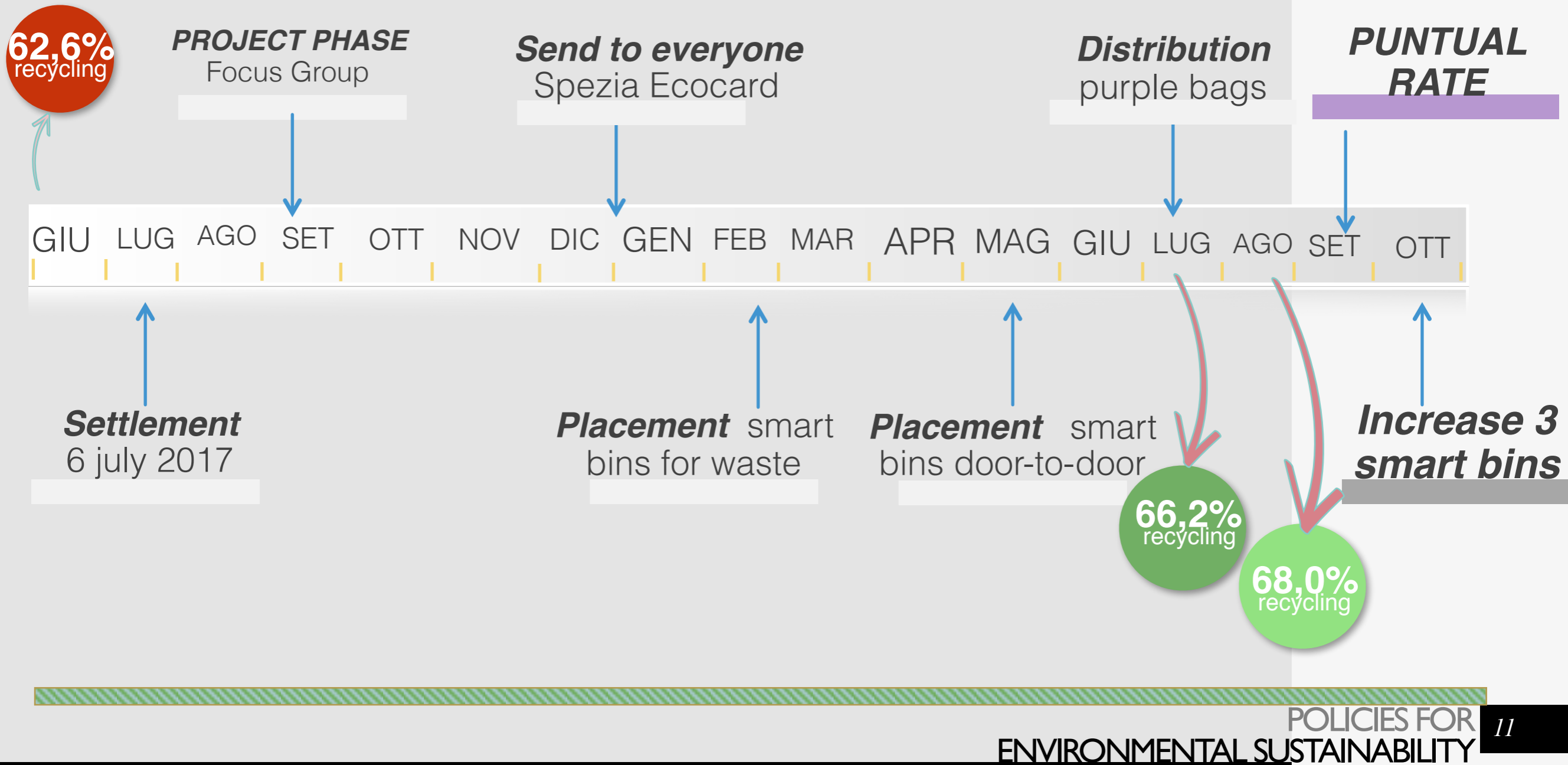
- *22 smart waste bins, accessible without limits of days and times, **SUPPORT** the home collection service to satisfy small inconveniences of service (eg the departure for a trip does not coincide with the day of collection)*

PUNTUAL RATE

- *For the non-recyclable fraction, the utilities must use the purple bag complying with 40 liters from the 1st of September. The minimum amount of bags is based the number of components. it's about a lot every 15 days to have the reduction in the tariff.*

TIMELINE: ACTION PLAN

1 year to change scenery in the city of La Spezia



2018: 68% PEAK OF DIFFERENTIATED COLLECTION

The result of a service that, on the one hand, has become more efficient and flexible on the other, controls have increased for those who commit environmental crimes by recording over 800 minutes.

A synergistic work between the municipal administration, the manager, the local police and the citizens has allowed us to obtain increasingly satisfactory results in environmental terms.

In August, separate waste collection reached 68.0%, a reality that leads us to be more virtuous and oriented towards an increasingly sustainable scenario.



A SYSTEM OF COLLECTION MORE

EFFICIENT, ORDERED, RESPECTFUL OF THE ENVIRONMENT.

*La Spezia is the first capital of the province of Liguria for %
of separate waste collection.*

66,2%
LUGLIO
2018

68,0%
AGOSTO
2018
AVVIO
ISOLE ZONALI

?
SETTEMBRE
2018
PRIMO DATO
DALL'AVVIO
TARIFFA PUNTUALE



GLOBAL WARMING

CO2 EMISSIONS

what is asking for Europe

Less CO2 with proper waste management

The most effective measure to save CO2 from waste is their reduction.

In 1995, a European citizen produced 468 kilograms a year of MSW, 524 kilograms in 2008 and in 2020 it is expected to produce 558, unless effective policies are put in place to reduce production.



AIR

CHOOSE SUSTAINABLE MOBILITY

GUIDELINES

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GUARANTEE, accessibility and livability of the city center, preferring pedestrians and bicycle
RELA, o se necessario riqualificare zone chiave della città.

CYCLING MOBILITY

- Cycle paths extend for only 8.6 km

POLLUTING VEHICLE LIMITATION

- Imposing a ban on transit to vehicles with emissions equal to or less than Euro 4

TOURIST BUS

- From 23/10/2017 no parking for buses in the areas of the city center, allowing ascent-descent.

INTERCHANGE PARKING

- create 2 new interchange car parks a total of 105,000 square meters with 4,000 parking spaces

PUBLIC TRANSPORT


- restructuring of urban and suburban lines for FAST, DIRECT, FREQUENT service.

ELECTRIC MOBILITY

- Implement public charging infrastructures by bringing them from 2 to 15.

URBAN PLAN OF SUSTAINABLE MOBILITY

THE INSTRUMENT



The protection of air quality is an indispensable and imperative objective in political choices, considering the important implications *on the health of citizens and on the environment.*

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THE CAR, THE FAVORITE CHOICE

The wide diffusion of the use of the private car that moves in one historic center that was not designed to accommodate cars.

Sustainable mobility (cycle mobility, vehicular skills, ecological and environmental quality, times and times of the city)

In a context that is certainly not dramatic, however, ***several critical elements have been verified in the quality of the air*** in various areas of the Municipality, above all as regards the parameter oxides of nitrogen, also determined by the combustion of combustion engines.



CYCLING MOBILITY

It represents only 3% of total trips.

RENEW

- The whole system towards tourists and residents in order to make the most of existing potential.

EXTEND

- The system (new stations, new bikes, ..)

TO REALIZE

- A cycle path that connects the Fabiano neighborhood with a cycle network, through the Litoranea, with the Municipality of Riomaggiore to create a unique route for landscape interest.

INCREASE

- Of 6 units the bike sharing stations that will then pass from 19 to 26. In addition, the stations will be renovated and equipped with charging columns to accommodate pedal assisted bicycles.



LOCAL PUBLIC TRANSPORT



**A RESTRUCTURING
OF THE PUBLIC
TRANSPORT THAT
GUARANTEES
A SERVICE:**

A NETWORK OF PUBLIC TRANSPORT

wide and complex: a total of km of urban network equal to 155.6 km with over 800 stops, more than 3.800.000 km routes. A network so vast presents some critical issues.

The LPT provides as an area of intervention that between Mazzetta and the station with the construction of a continuous path equipped with all the features listed above in order to define a real **BUSVIA**.

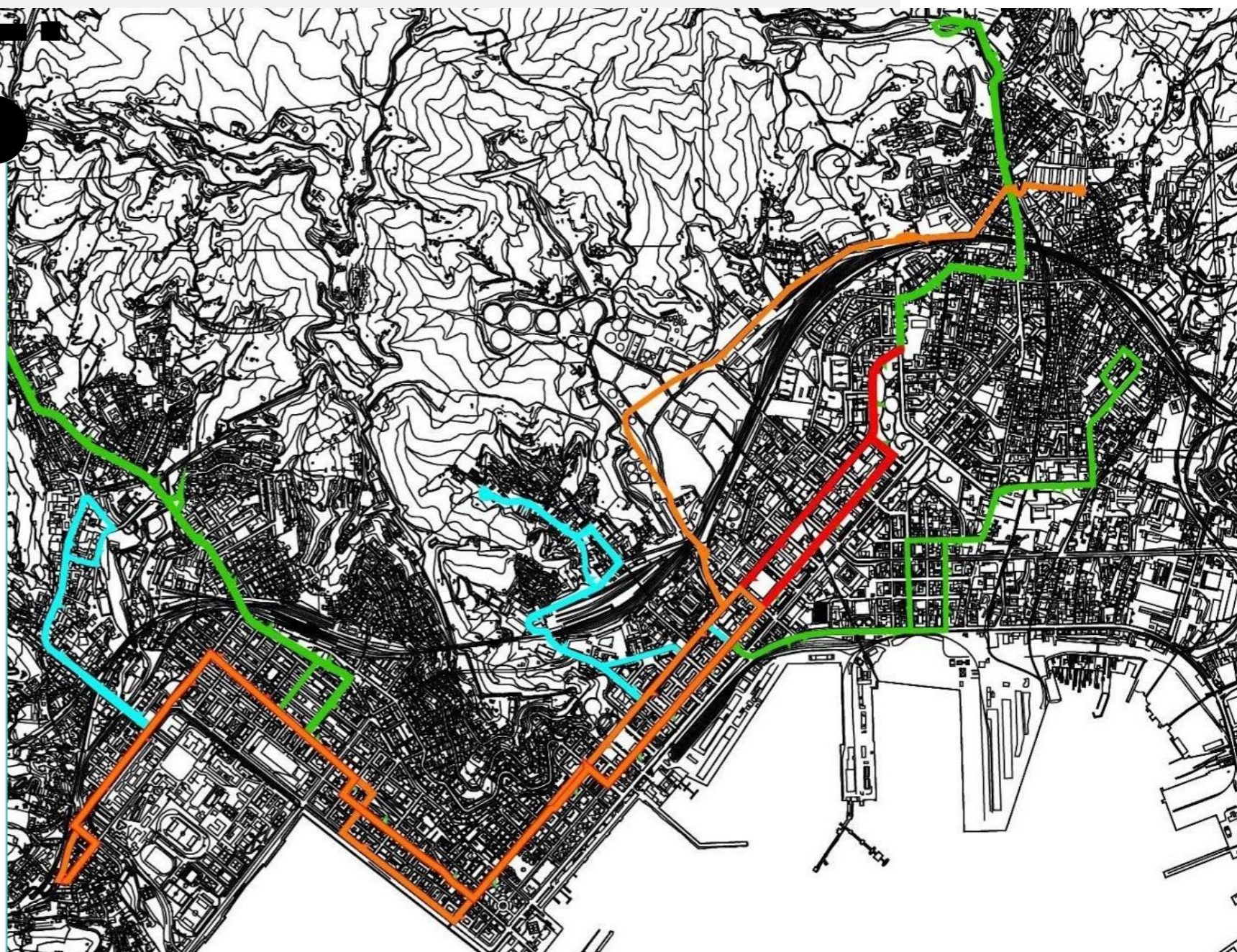
FREQUENT

RAPID

FAST

OBJECTIVE:

*The railway system's **RESTRUCTURING** conducted to an annual kilometric reduction of approximately 40,000 km and an overall increase of annual trolley km of about 110,000 km with urban lines changes.*





GLOBAL WARMING

CO2 EMISSIONS

Decarbonise transport

respond to the challenge of climate change

- In Italy, road transport is currently responsible for about 28% of the total CO2 emissions linked to final uses of energy.
- E-mobily, local public transport, cycle mobility are the most accredited answers to the increasingly pressing needs of noise reduction and emissions of air pollutants from traffic.



H A B

I T A T

ENERGY

LIFE STYLE

GUIDELINES

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ENERGY STRATEGIES

For a better management of resources

The major cause of emissions from industrial and agricultural activities, mobility and life-time is reflected in energy consumption, both in terms of use and quality.



CONTAIN

Energy consumption in various sectors



MAKE

SUSTAINABLE
Energy production



REDUCE

The consumption of fossil energy replacing it with alternative energy sources

THE INSTRUMENT:

MUNICIPAL ENVIRONMENTAL ENERGY PLAN



OBLIGATORY FOR:

- identify strategic guidelines in the Energy sector
- verify the existence of the conditions and resources for their implementation
- monitor over time their actual implementation

For electricity, a change was assessed, over the years up to 2020, of the national and local electricity mix; in particular, it is estimated that, in 2020, 25% of electricity, based on European targets, will be produced from renewable sources.

FOR A DIFFERENT MODEL OF ENERGY,
we need to rethink the role of energy to its impacts

ACTION LINES WITHIN 2020:

- *any vector shift (for example in the residential sector)*
- *they hypothesize the replacement of the residual share of fuel oil and fuel oil consumption for winter air conditioning with natural gas; in the transport sector the share of LPG and CNG cars increased;*
- *quantitative variations of energy carriers used for air conditioning or industrial uses;*
- *quantitative changes in electricity consumption;*
- *quantitative variations of the fuels used for the automotive sector, taking into consideration the modification to 2020 of the shape of the average vehicle park in La Spezia.*



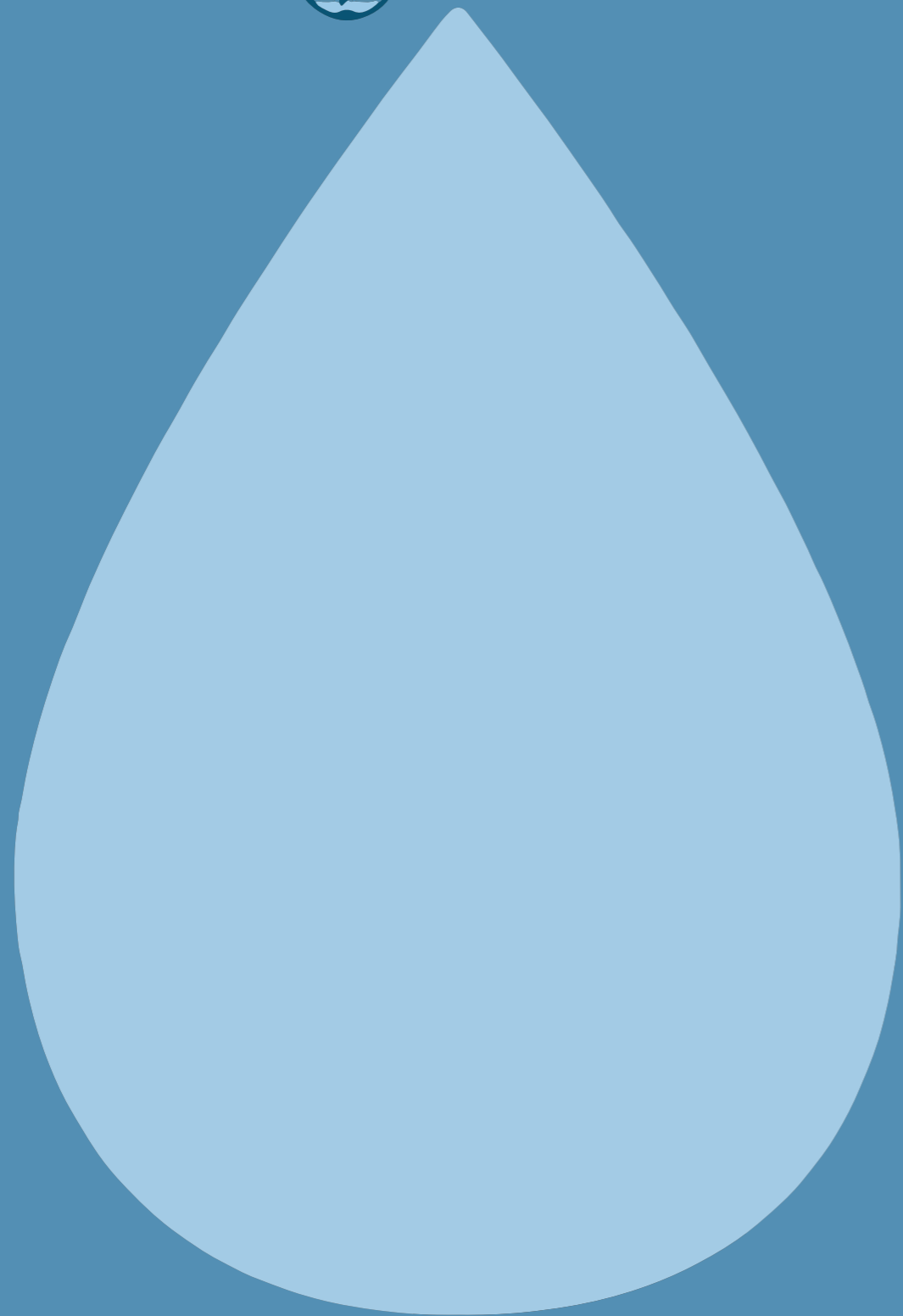
GLOBAL WARMING

CO2 EMISSIONS

Objective 2020

in line with Europe

- Overall, a percentage reduction of around 14% is estimated (equal to 56,387 tonnes of CO2 less). A reduction of 28,246 tons of CO2 is already achievable without the application of specific municipal policies.
- On the other hand, the remaining 50% share of the reduction refers to the application of the lines of action described above.



WATER

WATER IS LIFE

GUIDELINES

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THE QUALITY OF WATER

the waste water discharges play a key role

- Social, productive and recreational activities, mainly in urban areas, require and use a large amount of water
- **The return to the wastewater** environment is the last act of water cycle management: the quality and the quantity of the water depends on the qualitative and quantitative characteristics of the waste and therefore the suitability for use to which it is destined.

Census of sewage drains

Recognized **192** buildings connected to the public sewer, of which:

- 98 pending the **execution** of private works
- 94 pending the **activation** of connection procedures by the owners / administrators.

THE 98 USERS

- urged to complete the work, after 30 days the Environmental Office will issue relative sanctions.

THE 94 USERS

- Environment Office will provide to inform the Public Sewer, giving 15 days time.

UPDATE

- The Environment Office will update the database of condominium administrators

CENSUS OF THE NORTH AREA OF THE SPICE

The census of the northern area of the city will continue soon, whose sewage effluents deliver into the Lagora.

- The manager Acam Acque and the Municipality have invested € 500,000 to verify the possibility of setting up an ad hoc project for this census activity.

CO2 EMISSIONS

GLOBAL WARMING

A large part of the emissions deriving from the purification plants is indirect, largely linked to the consumption of electricity by the machinery in operation.

- On average only about 52% of energy consumption are linked to the process of oxygenation of wastewater within the oxidation sector.
- With the aim of identifying plant engineering and management solutions that reduce energy consumption and, consequently, the emission of greenhouse gases into the atmosphere, attention must be focused on the efficiency of ventilation systems.



ENVIRONMENTAL EDUCATION

LIVING IN SUSTAINABLE WAY

GUIDELINES

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A FUNDAMENTAL INSTRUMENT

to raise awareness among citizens and communities of greater responsibility and attention to environmental issues and good governance of the territory ".

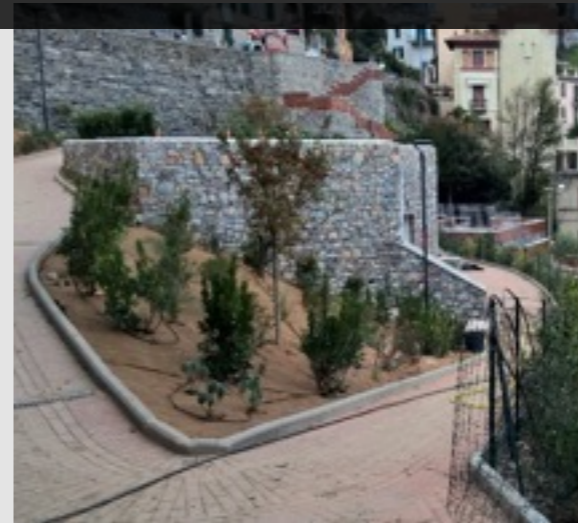


PROJECT
VEGETABLE GARDEN IN CONDUCT
CASTLE St. GIORGIO

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THE PROJECT



The Municipality of La Spezia has developed a collaboration with slowfood starting from the 2010/2011 school year in order to promote and develop food and environmental education in schools, to foster in young generations a culture linked to the land and to give the possibility to all the schools to be able to put in their educational offer the cultivation of gardens in order to educate and raise awareness of the variety, the seasonality of biological systems and the importance of agriculture Km. 0.

CO2 EMISSIONS

Do the vegetable garden to learn that close is better

GLOBAL **AL**ARMING

Choosing locally produced seasonal fruit and vegetables *means helping to reduce the emission of CO2*, because inevitably imported products arrive on supermarket counters after having traveled (more or less) long journeys, and producing less waste, in terms of paper and plastic used to pack fruit and vegetables for transport.

RESILIENCE and no INDIFFERENCE

I DON'T BELIEVE IN
GLOBAL WARMING

THANK YOU

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