



Sustainable Edification

Ciro Project





Index

Part 1: Introduction

Part 2: Environmental background

Part 3: Description of the project

Part 4: Objectives of the project

Part 5: Innovative aspects

Introduction

Sustainable cities

Introduction

Better quality of life.



A reduction of the negative
impacts of the environment



Sustainable cities



Introduction

Better quality of life.



A reduction of the negative impacts of the environment



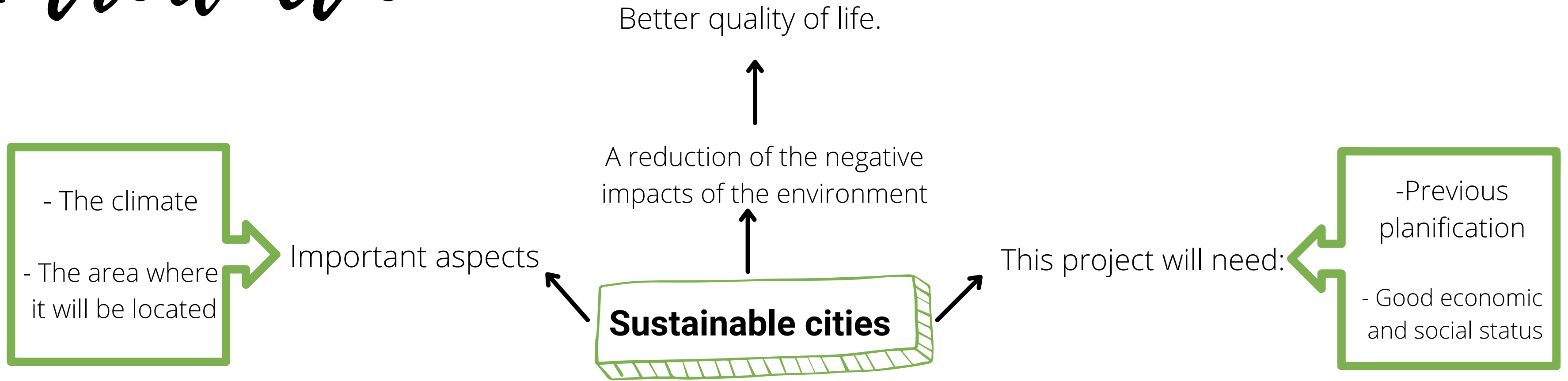
Sustainable cities

This project will need:

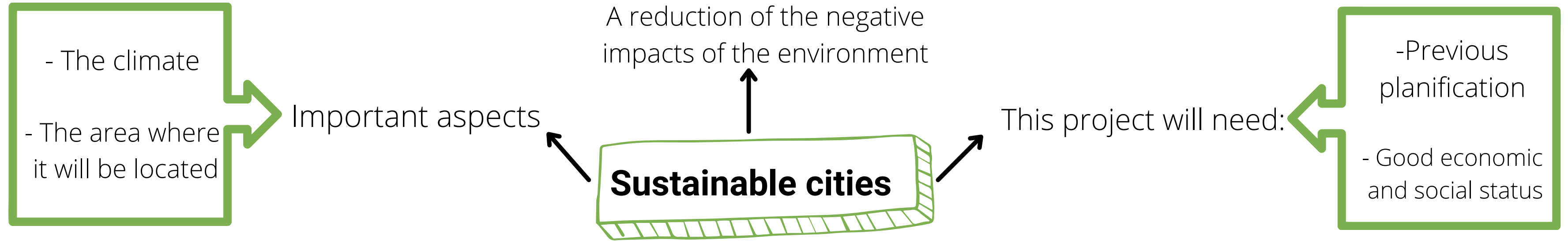
-Previous
planification

- Good economic
and social status

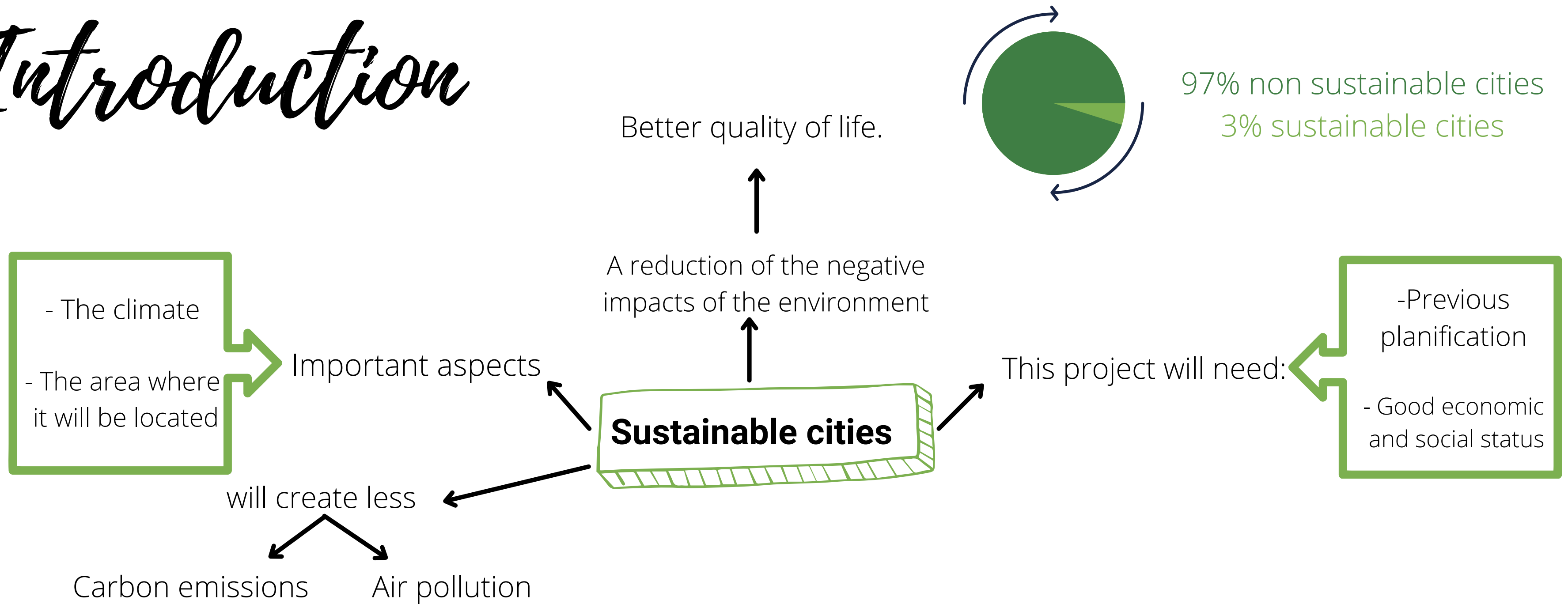
Introduction



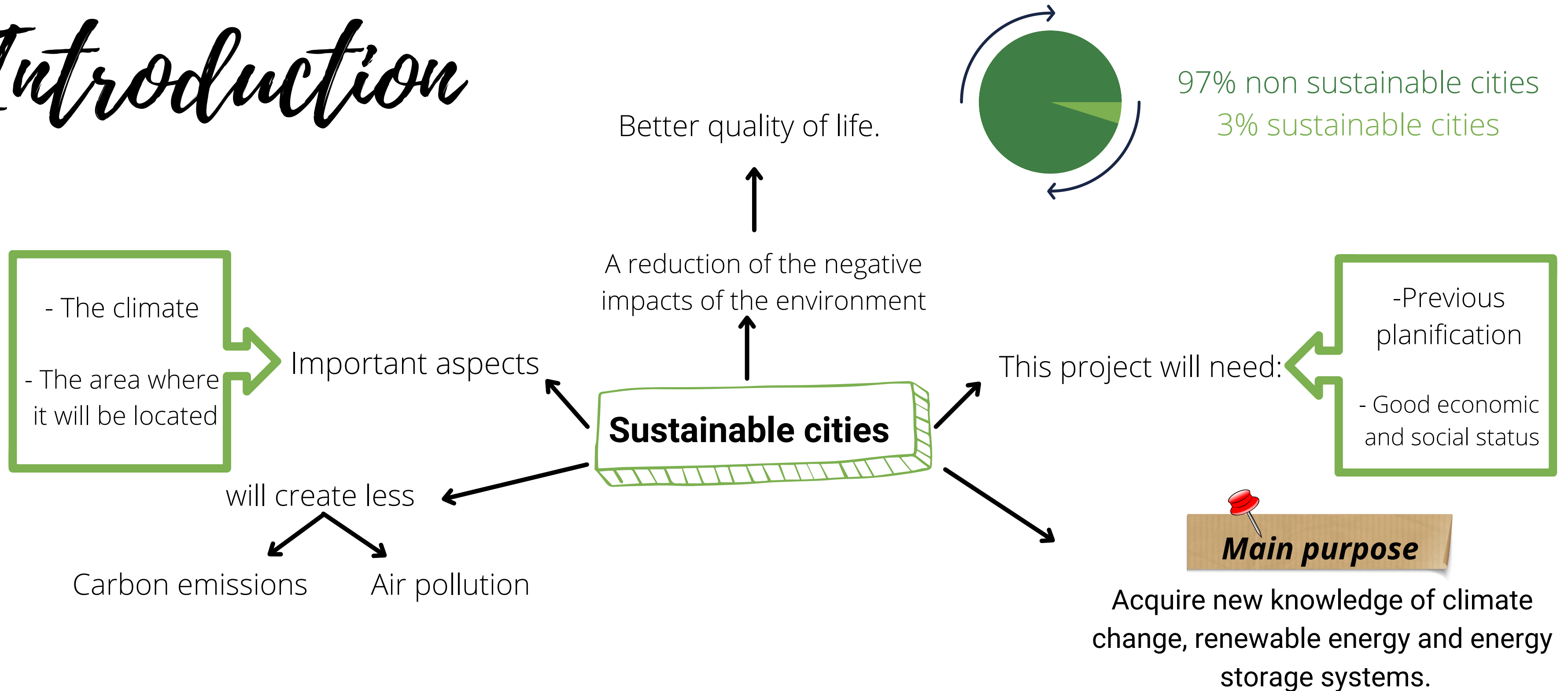
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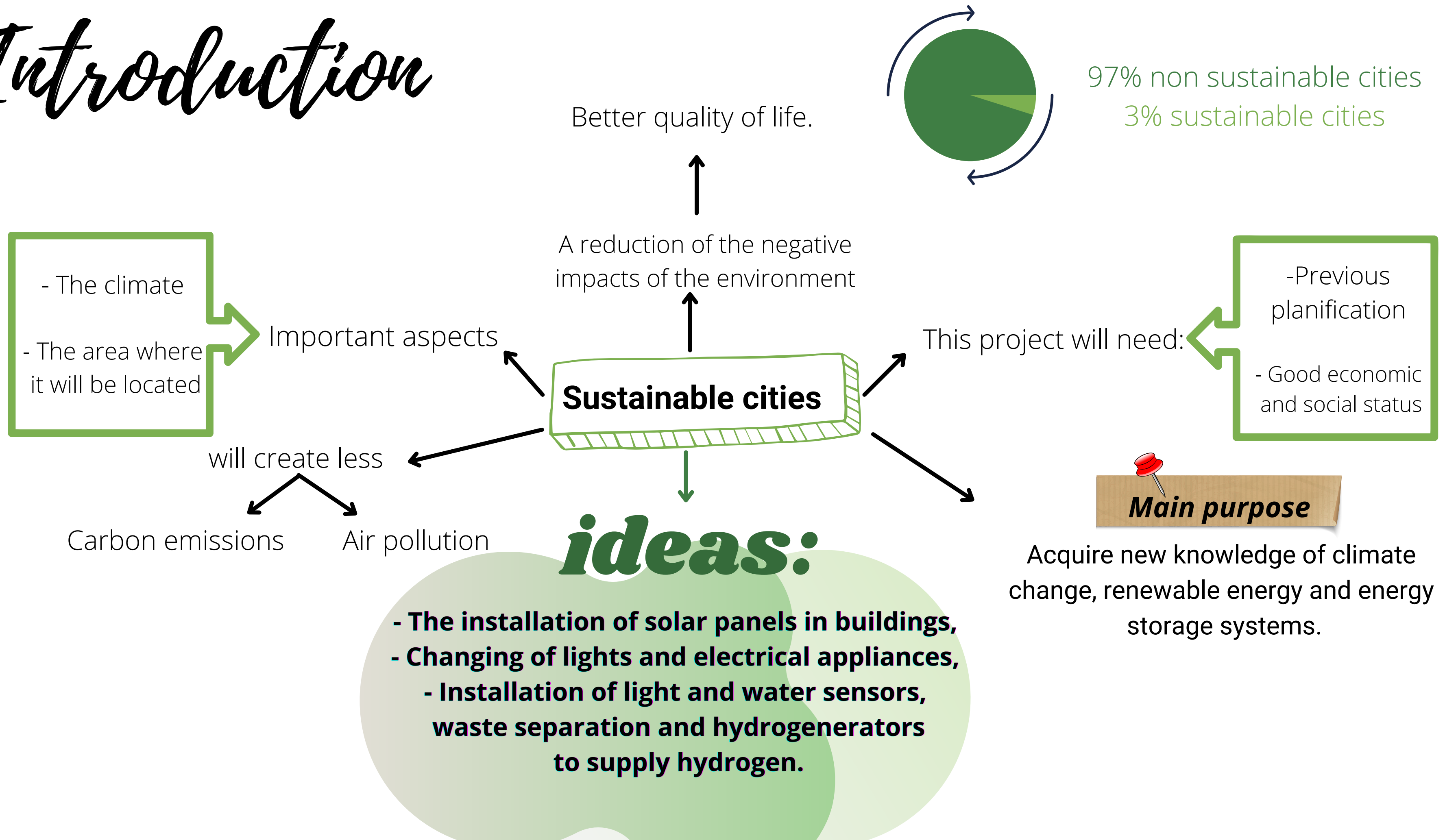
Introduction



Introduction



Introduction



Environmental background

Our city will be located in **HUELVA**



Port of Huelva

Is divided into two sectors:

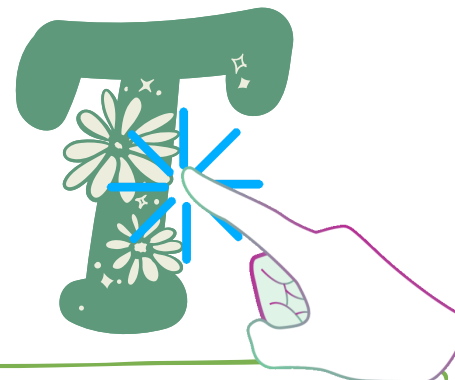
INNER PORT

OUTER PORT



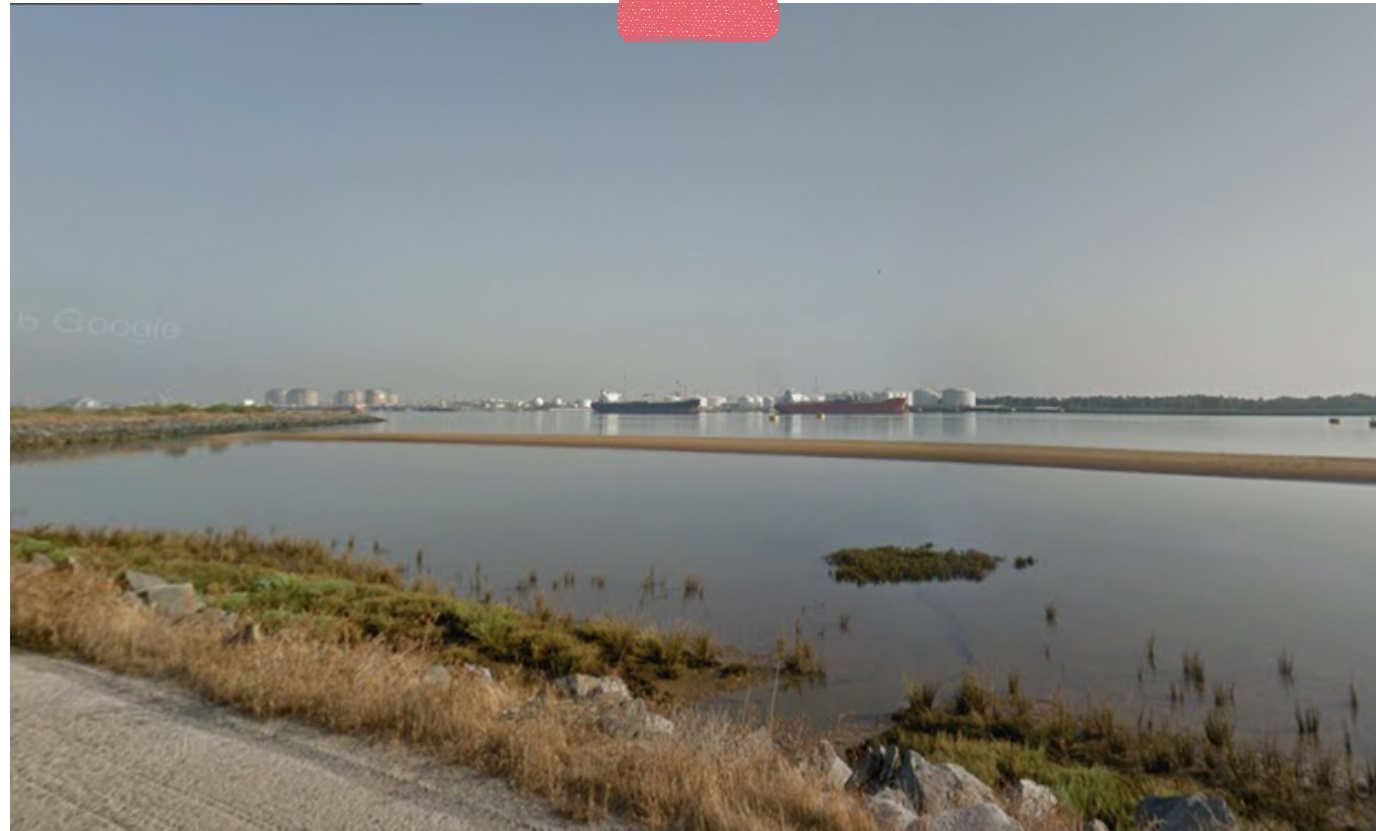
Characteristics of huelva

- ✓ Port city located in the southwest of Spain
- ✓ Mediterranean climate
- ✓ Population of 146.318 citizens.
- ✓ Is divided into 48 neighborhoods.
- ✓ The economy: factories and service sector.
- ✓ Most active, competitive and growing ports.



VIRTUAL TOUR

Juan Carlos I Breakwater



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Phospho-gypsum waste



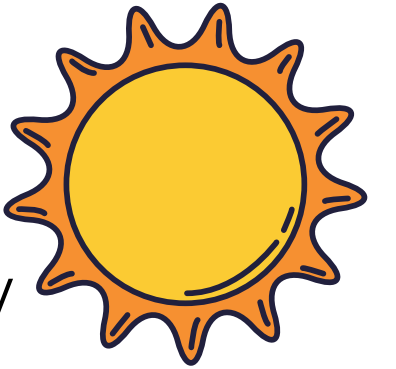
Description of the project

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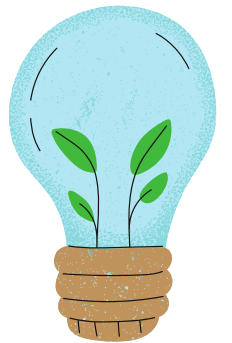
Installation of solar panels

→ will help supply renewable energy



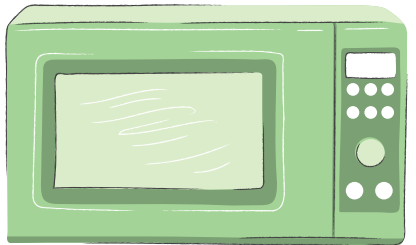
Use of LED lights

→ eliminate the use of mercury



**Use of A+++
appliances**

→ higher savings of energy



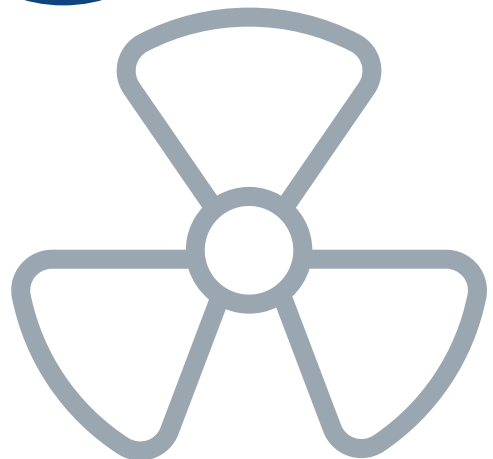
Sensors for water
and light

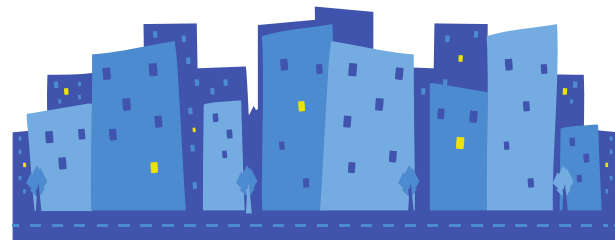
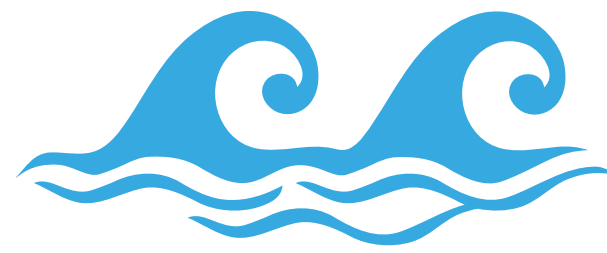
→ works only when necessary



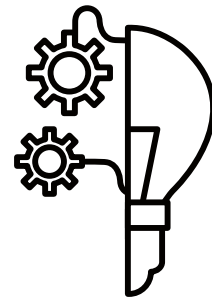
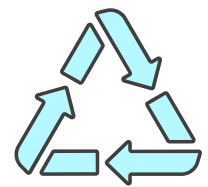
Use of hydrogen

→ reduces the impact of pollution

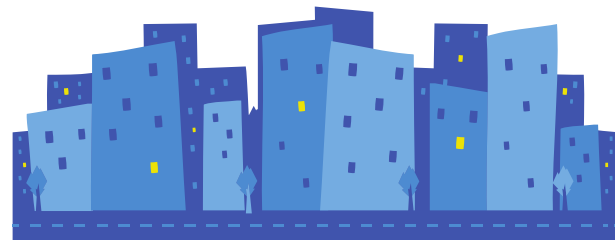




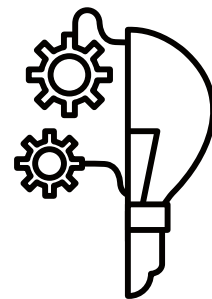
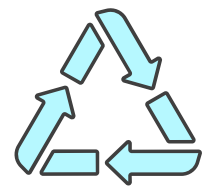
Objectives of the project



Contribute to the development of
renewable energies.



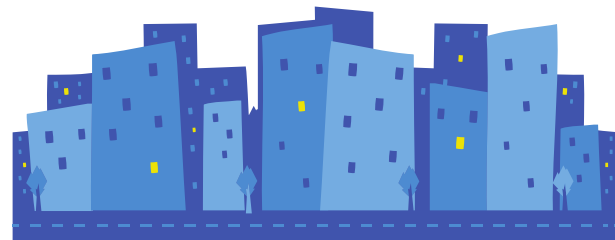
Objectives of the project



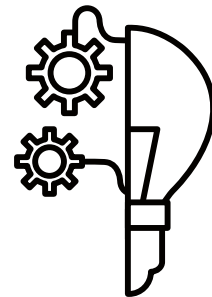
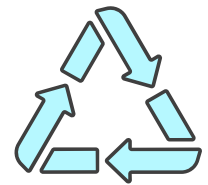
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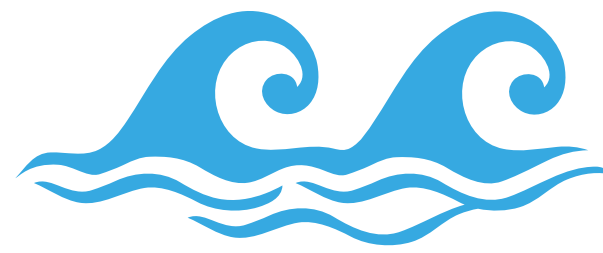
Contribute to the reduction
of polluting gases.



Objectives of the project

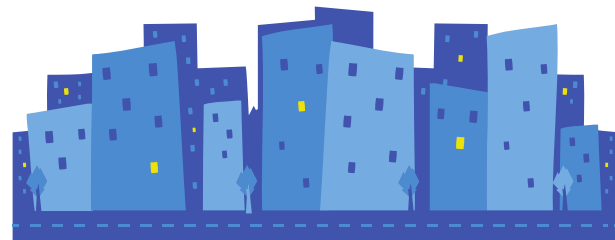


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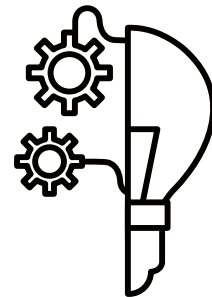
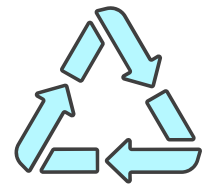


Promote initiatives that contribute to the implementation of renewable energies.

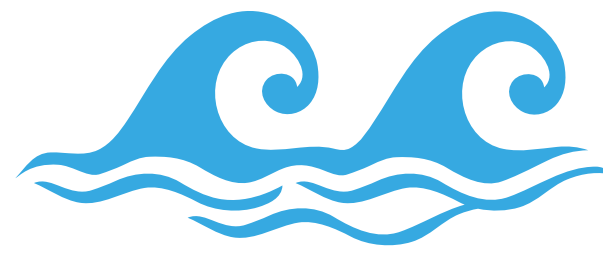
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Objectives of the project



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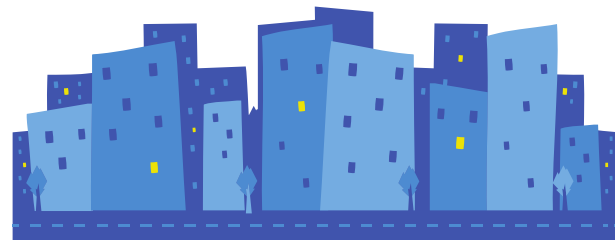


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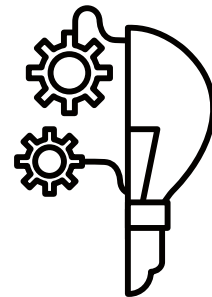
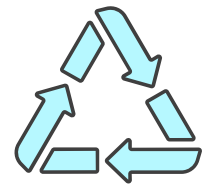


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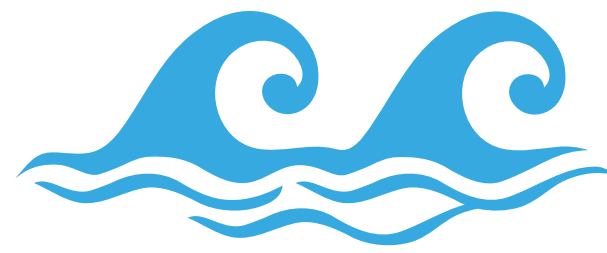
Develop activities to inform and raise awareness among the population.



Objectives of the project



Contribute to the development of renewable energies.

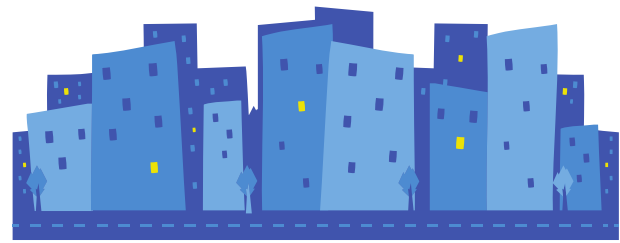


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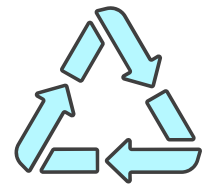


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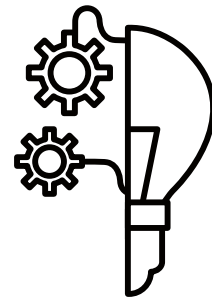
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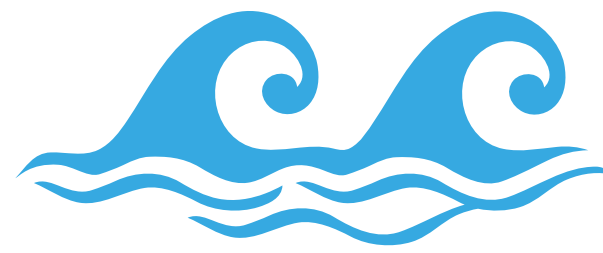
Objectives of the project



Turn our city into an example of sustainability.



Contribute to the development of renewable energies.

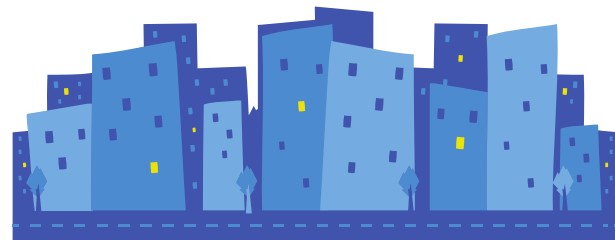


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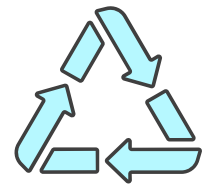


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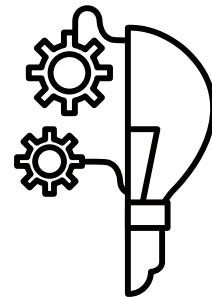
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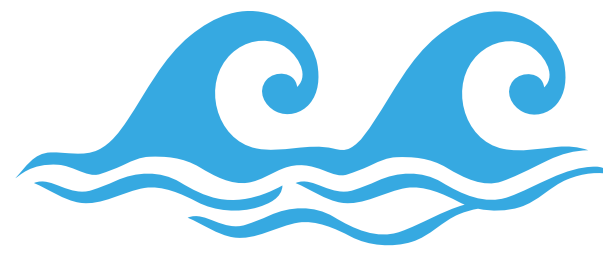
Turn our city into an example of sustainability.



Improve the quality of life of citizens.



Contribute to the development of renewable energies.

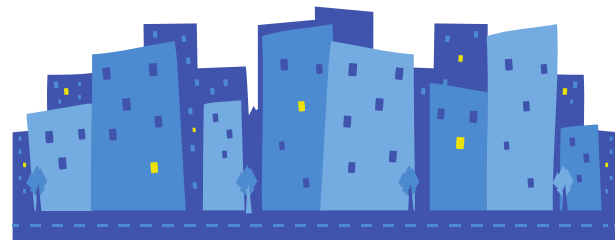


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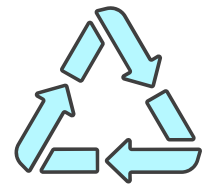


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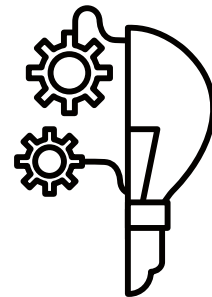
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Objectives of the project



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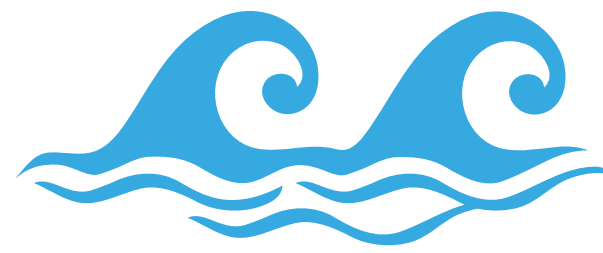
Improve the quality of life of citizens.



Take advantage of natural energy sources



Contribute to the development of renewable energies.

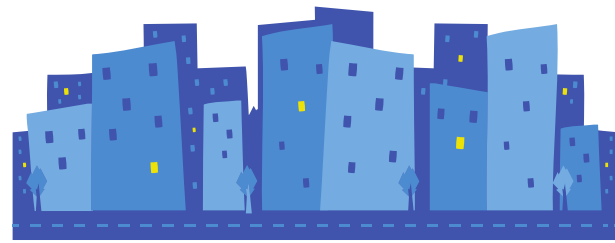


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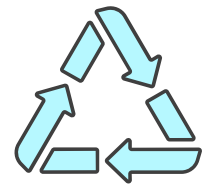


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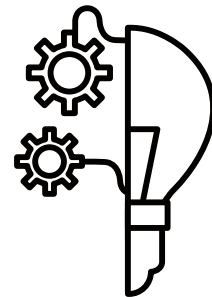
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Objectives of the project



Generate and store energy in urban areas.



Turn our city into an example of sustainability.

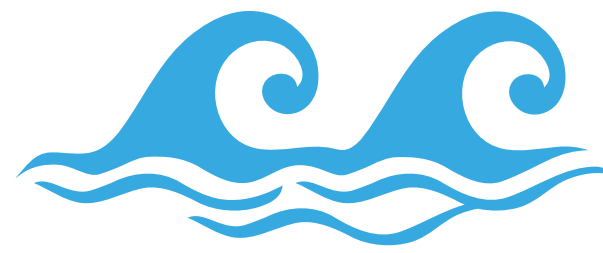
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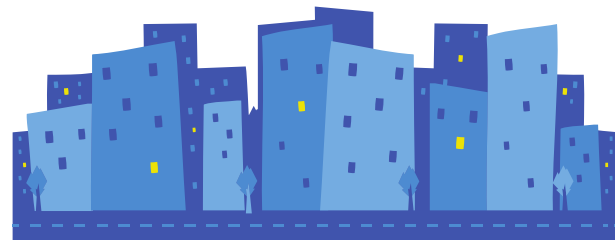


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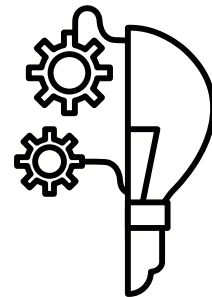
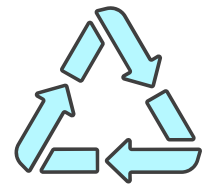


Promote initiatives that contribute to the implementation of renewable energies.

Develop activities to inform and raise awareness among the population.



Objectives of the project



Generate and store energy in urban areas.

Turn our city into an example of sustainability.

Offer citizens a guarantee of performance and greater investment in sustainable appliances.

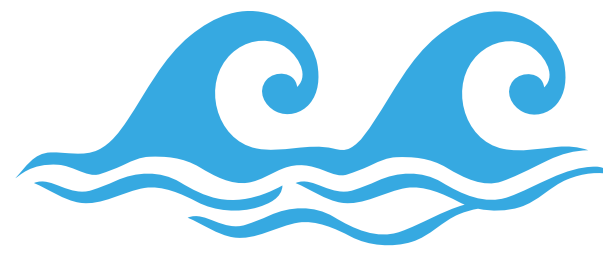


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Take advantage of natural energy sources



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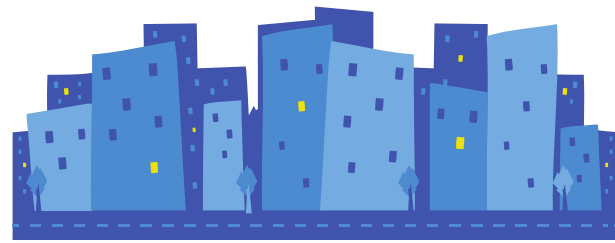


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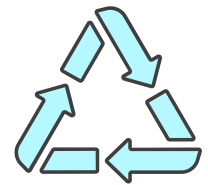


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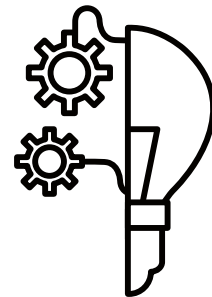
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Objectives of the project



Generate and store energy in urban areas.



Turn our city into an example of sustainability.

Public transport

Offer citizens a guarantee of performance and greater investment in sustainable appliances.

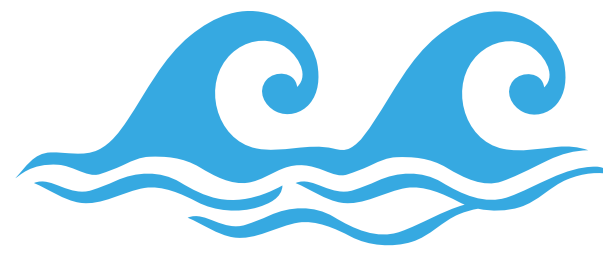


Improve the quality of life of citizens.

Take advantage of natural energy sources



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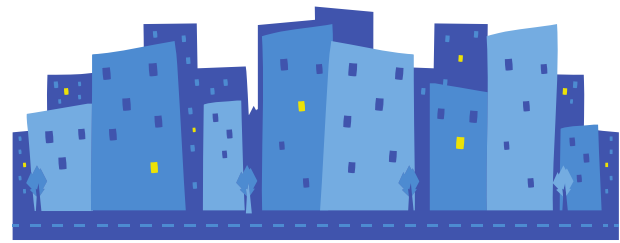
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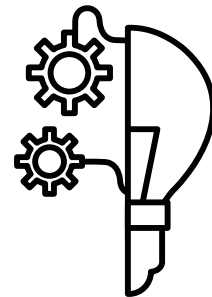
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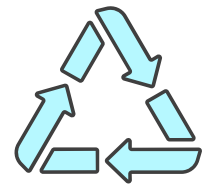
Objectives of the project



Convert our city into a 100% sustainable city



Generate and store energy in urban areas.



Turn our city into an example of sustainability.

Public transport



Offer citizens a guarantee of performance and greater investment in sustainable appliances.

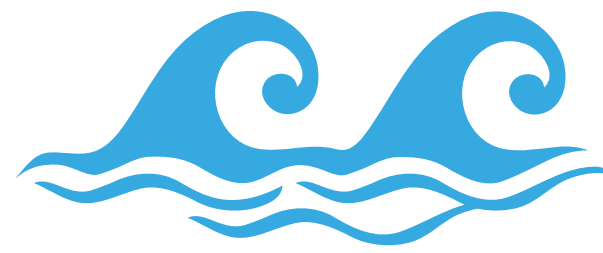


Improve the quality of life of citizens.

Take advantage of natural energy sources



Contribute to the development of renewable energies.



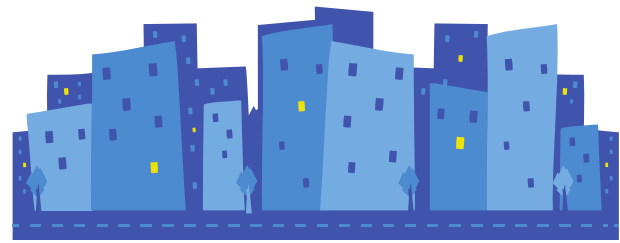
Contribute to the reduction of polluting gases.

Promote initiatives that contribute to the implementation of renewable energies.

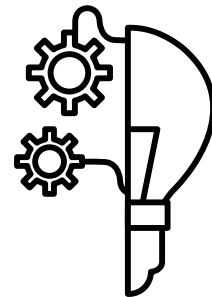
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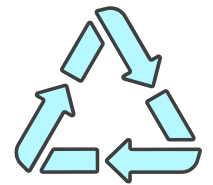
Improve the efficiency of batteries



Convert our city into a 100% sustainable city



Generate and store energy in urban areas.



Turn our city into an example of sustainability.

Public transport



Offer citizens a guarantee of performance and greater investment in sustainable appliances.



Improve the quality of life of citizens.

Take advantage of natural energy sources

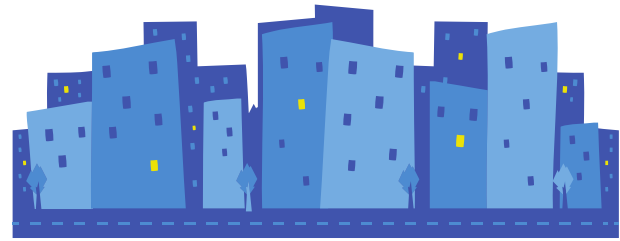


Objectives of the project

Contribute to the development of renewable energies.

Install a greater number of energy storage sources

Improve the efficiency of batteries

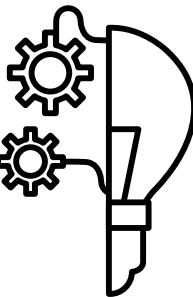


Convert our city into a 100% sustainable city

Public transport

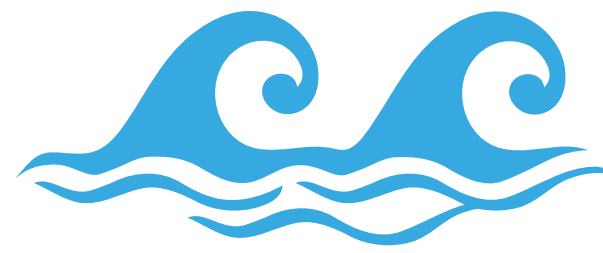


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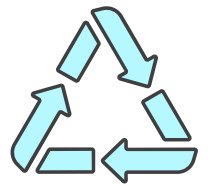
Generate and store energy in urban areas.

Contribute to the reduction of polluting gases.



Promote initiatives that contribute to the implementation of renewable energies.

Develop activities to inform and raise awareness among the population.



Turn our city into an example of sustainability.

Improve the quality of life of citizens.



Take advantage of natural energy sources



Objectives of the project

Innovative aspects

Ecological buildings

Solar panels

Rooftop gardens

Reduces CO2 emissions

Regulates the temperature



Application for parking

Reduces CO2 emissions

Informing of free spaces



Solar road

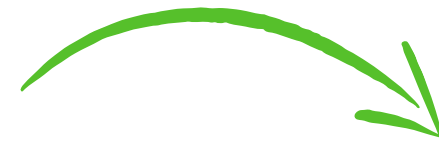
Wireless charging

Made of 3 layers



Conclusion

SUSTAINABLE CITIES

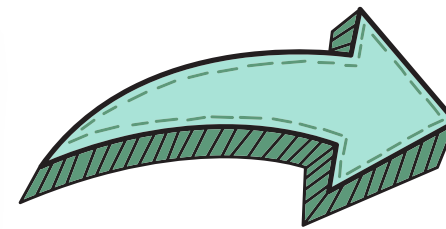


- Ensure access for all to acquire housing and basic services
- Favor the creation of green areas and public spaces.

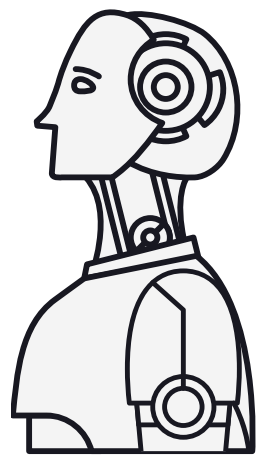


Hydrogen will be of great importance in the future

EXPANSION OF ICT



generate sustainable cities and improve the lifestyle of citizens



If these sustainable goals are followed through, cities will continue to be an economic and progressive engine, without destroying or deteriorating the natural resources that the environment offers us.



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CIRO courses notes