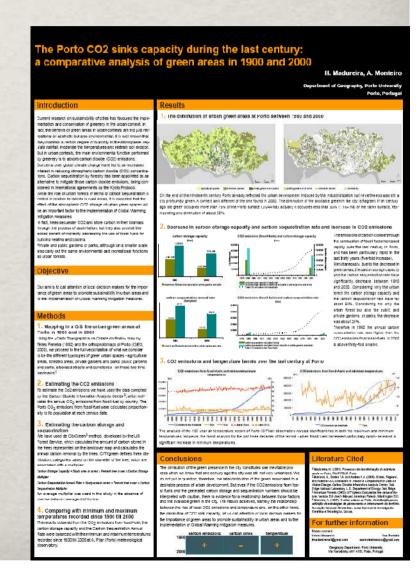
The Porto CO2 sinks capacity during the last century:

a comparative analysis of green areas in 1900 and 2000



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Objective

call attention of local decision makers for the importance of green areas to promote sustainability in urban areas and to the implementation of Global Warming mitigation measures.

Methods

1. Mapping in a GIS the urban green areas at Porto in 1900 and in 2000

2. Estimating the CO2 emissions

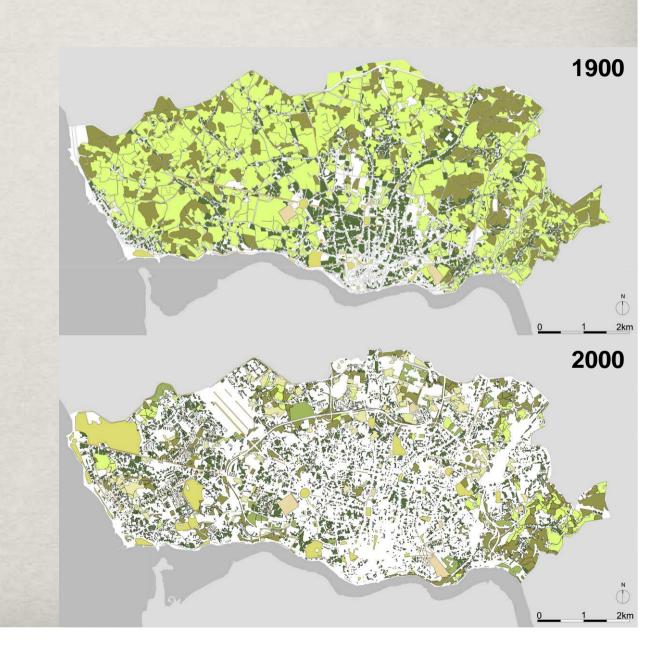
(based on the data compiled by the Carbon Dioxide Information Analysis Center)

3. Estimating the carbon storage and sequestration (CityGreen method)

4. Comparing with temperatures recorded since 1900 till 2000 (analysis of the 106-year air temperature record of Porto (S.Pilar) observatory)

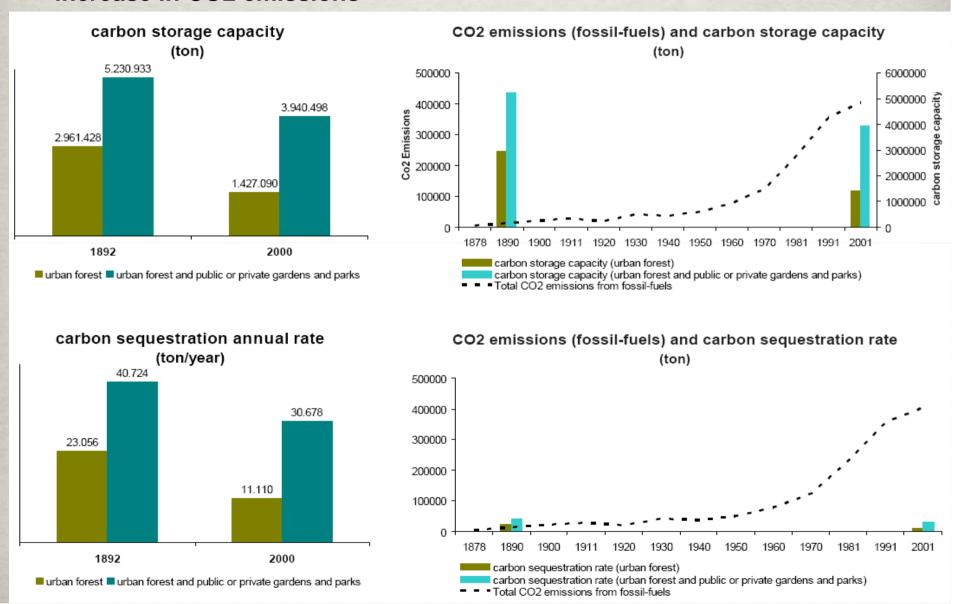
Results

1. The diminution of urban green areas between 1900 and 2000



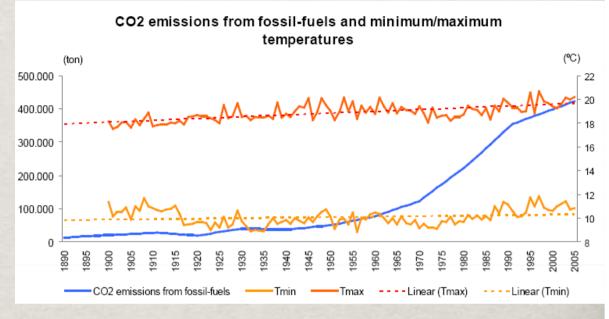
Results

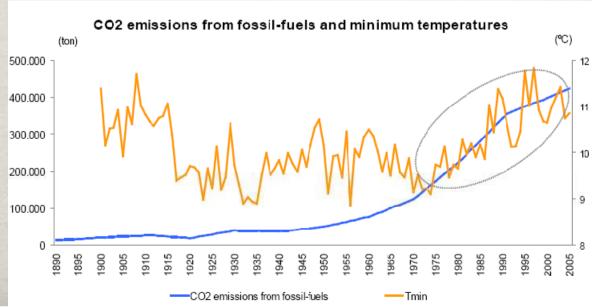
2. Decrease in carbon storage capacity and carbon sequestration rate and increase in CO2 emissions



Results

3. CO2 emissions and temperature trends over the last century at Porto





Conclusion

